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Preliminary Results of Passive Microwave Snow Experiment During February and March 1978

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A. T. C. Chang and J. C. Shiue
*Goddard Space Flight Center
Greenbelt, Maryland*

H. Boyne, D. Ellerbruch, G. Counas,
R. Wittmann, and R. Jones
*National Bureau of Standards
Boulder, Colorado*



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and Space Administration

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This document makes use of international metric units according to the Systeme International d'Unites (SI). In certain cases, utility requires the retention of other systems of units in addition to the SI units. The conventional units stated in parentheses following the computed SI equivalents are the basis of the measurements and calculations reported.

ABSTRACT

The purpose of this experiment was to determine if remote microwave sensing of snowpack data could be used to predict runoff, thereby allowing more efficient management of the water supply. A four-frequency microwave radiometer system was attached to a truck-mounted aerial lift and was used to gather data on snowpacks at three different sites in the Colorado Rocky Mountains. Ground truth data measurements (density, temperature, grain size, hardness, and free-liquid water content) were taken at each site corresponding to each microwave scan. Although the detailed analysis of these data is not yet complete, understanding of microwave sensing has been enhanced considerably.

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PRELIMINARY RESULTS OF PASSIVE MICROWAVE SNOW EXPERIMENT DURING FEBRUARY AND MARCH 1978

A. T. C. Chang and J. C. Shiue
Goddard Space Flight Center
Greenbelt, Maryland

and

**H. Boyne, D. Ellerbruch, G. Counas,
R. Wittmann, and R. Jones**
National Bureau of Standards
Boulder, Colorado

INTRODUCTION

Runoff from melting snow provides greater than 65 percent of the streamflow for most of the mountainous western United States. Timely and accurate prediction of the amount of runoff would allow more efficient management of the scarce water supply for hydropower generation, irrigation, and domestic and industrial water use.

In order to monitor the snow resources to predict runoff, it is necessary to measure the water equivalent, free-water content, and covered area of snowpacks. In addition to the snow properties (e.g., temperature profile, density, grain size), the condition of the underlying soil surface is especially important for estimating the amount of snow-melt water that will reach the stream channel as runoff. Presently, data needed for runoff predictions are obtained from in-situ measurements of snow depth, density, and water equivalent along preselected snow courses. Measurements using these methods are difficult to obtain in severe weather conditions; hence, data for snowmelt models in watershed runoff forecasting are frequently insufficient.

Remote sensing techniques may provide data more suitable to model calculation because of their capability of making measurements over the entire watershed area in a relatively short time period. Estimates of snow-covered areas from satellite-borne visible and infrared images for several test watersheds correlate well with the runoff yields (Reference 1). This seems to be a new and promising technique for runoff forecasts. However, the capabilities of the visible and infrared images are limited by the penetration of these short wavelengths through clouds and snowpacks.

Microwaves are largely unaffected by clouds and can penetrate through snow, the depth of penetration depending on the wavelength. Therefore, the development of a technique for the remote sensing of snow-water equivalent over large areas would seem promising. Microwave sensing is one of the most promising techniques because of the volume scattering properties of snow grains at microwave wavelengths. Recent studies (References 2 and 3) showed that multifrequency microwave measurements could be used to infer these interesting snow parameters.

A truck-mounted multifrequency microwave radiometer system (5.0, 10.7, 18, and 37 GHz) was used to conduct field experiments in the Rocky Mountains of Colorado during February and March of 1978. The truck mobility allowed experimenters to move from one test site to another with relative ease and speed. This system was integrated by personnel of the National Aeronautics and Space Administration/Goddard Space Flight Center in cooperation with the National Bureau of Standards.

EXPERIMENTAL APPARATUS AND PROCEDURES

Four radiometers (5, 10.7, 18, and 37 GHz) were mounted on a metal-framed enclosure that could be controlled by an aerial lift. The truck-mounted hydraulically operated boom had a maximum length of 14 m when all three sections were fully extended. The boom could be moved in both elevation and azimuth. Also, the instrument unit could be rotated in an elevation plane. The rotation, coupled with the elevation movement and telescoping of the boom, allowed experimenters to vary the incidence angle and location for the measurements.

All four radiometers measured both vertically and horizontally polarized electromagnetic waves. The antennas were corrugated horns with low sidelobes. The nominal 3-dB beam widths were 6° except the 5-GHz unit, which was 15° . The radiometers were comparison or Dicke types with square waves for modulation and synchronous detection. The noise-equivalent brightness temperature (temperature sensitivity) was about 1 K with 0.1-sec integration time. In this experiment, more than 60 samples of brightness temperature measurements were taken and averaged for each single data point to improve measurement precision. The radiometers were calibrated internally every 16 seconds by switching the inputs from the antenna to a "hot" load and a liquid-nitrogen "cold" load. The hot-load temperature and the physical temperature of the antenna were also monitored. External calibration was achieved by viewing the clear sky and an ambient-temperature Eccosorb target.

Most brightness-temperature data were obtained by scanning the instrument unit. Two different types of scanning procedures were used in measuring the brightness temperature as a function of incidence angle. In "swath" scanning the radiometer antenna is scanned in a vertical plane gradually from nadir (normal incidence) until it is almost perpendicular to the

nadir. Meanwhile, the antenna remains in a fixed position. Therefore, the antenna actually views at different spots along a radial "swath" as the incidence angle changes. Under this condition, any inhomogeneity of the snowfield could modify the characteristic of the angular dependence. In order to remove the potential field inhomogeneity effect, the experimenters scanned the radiometer antenna such that it always viewed the same "spot" while the incidence angle changed. In addition to the scanning measurement, several time-sequence measurements were made to study the diurnal effect on microwave snow signatures.

Physical characterizations of the snowpack ("ground truth") were also made along with the microwave measurement. Snow density and temperature were documented for every 5 cm of snow depth. The relative hardness or strength of each layer of snow was measured by a ram penetrometer (see figures A-1 to A-8 in Appendix A). Also, visual inspections were made of the average grain size of the snowpack at different depths. Liquid-water contents were measured by centrifuge method and freezing calorimetry (see figures A-9 to A-16 in Appendix A).

The truck unit performed microwave measurements at three sites, covering both shallow uniform packs in a valley as well as smaller and deeper packs in a high-elevation mountain pass. One of the valley sites was located at Hideaway Park, Colorado (adjacent to State Highway 40 between the towns of Hideaway Park and Fraser), with a uniform snow depth of 60 to 70 cm in February 1978. The high-elevation site (3658 m) was near Pass Lake of Loveland Pass, where the snow depth was about 2.4 to 3 m during the measurement. The third site was located in a valley south of the town of Steamboat Springs, Colorado, with about 77 cm of wet snow near the end of March 1978.

MICROWAVE RADIOMETRIC OBSERVATIONS

The magnitude of the brightness temperatures for the four radiometers were determined by comparing the radiation received by the antenna with an internal "hot" load at about 310 K and a liquid nitrogen "cold" load at about 77 K. The calibration of each radiometer system was checked by aiming the antenna at targets whose brightness temperatures could be calculated. These targets were Eccosorb absorber and the cold sky. The results of a typical check for the calibration targets are listed in Table 1. The calculated sky temperature included the effect of a dry atmosphere and used the snow temperature of 273 K (0°C), observed by the thermometer. The temperatures for the Eccosorb were those measured by the thermocouple inserted inside the microwave absorber. In this case the observed values generally differed less than 10 K from the calculated brightness temperature. For the range of brightness observed in this experiment, the error should be comparable to the difference shown in Table 1. Appendix B lists all the calculated brightness temperatures and physical temperatures of the hot load and of the antenna collected in this experiment.

Table 1
Comparisons of Observed and Calculated Brightness Temperatures

Target	Brightness Temperature (K)				
	Observed			Calculated	Difference (observed - calculated)
Sky	5	V	2.6	4.9	- 2.3
		H	5.4		0.5
	10	V	2.9	5.2	- 2.3
		H	4.5		- 0.7
	18	V	10.0	6.9	3.1
		H	10.0		3.1
	37	V	9.6	12.3	- 2.7
		H	24.6		12.3
Eccosorb	5	V	288.8	288.6	0.2
		H	289.1	288.6	0.5
	10	V	287.1	288.1	- 1.0
		H	286.8	288.1	- 1.3
	18	V	279.8	288.1	- 8.3
		H	284.3	288.1	- 3.8
	37	V	285.1	288.1	- 3.0
		H	287.4	288.1	- 0.7

SUMMARY AND CONCLUSIONS

The primary goal of the experiment was to study the feasibility of measuring snow depth, density, and nonuniform vertical grain-size distribution of a snowpack by multichannel microwave measurement. A total of about 30 days' snowfield data were collected at three different test sites. Calibration of the radiometric data and compilation of all the ground truth data have been completed. Although the detailed analysis of these data has not been completed, our understanding of the microwave signatures of snowfields and how these signatures can be exploited to give us the information we seek has been enhanced considerably.

By reviewing the radiometric data, it is obvious that those brightness-temperature data taken before any significant melting occurred match quite well with the calculated results from a microscopic scattering model (Reference 2). However, after the snowpack underwent freeze/thaw cycles, the measured brightness generally did not match the results of the simple model. This is probably due to the layering effect generated by the refreezing of free water within the snowpack. In order to remove possible ambiguities due to this effect, multichannel data are required to retrieve those snow parameters which are pertinent to the runoff-model prediction.

The measured 37-GHz brightness temperatures showed considerable effect of volume scattering by the snow grain. This effect is much less distinct for the 5-GHz when comparing the brightness temperature for a natural pack and a wind-drift pack. The 37-GHz brightness temperature for a wind-drift pack is generally about 40 K higher than the naturally compacted snow pack. We attributed the warmer brightness temperature of the wind-drift pack to its smaller average grain size (0.5 mm), which scatters less.

The brightness temperature changed drastically when a small amount of free water existed within the snowpack. The 37-GHz brightness changes first because at this frequency most of the microwave radiation was emitted from a thin layer of snow exposed to the warmer snow-air interface. This increase of brightness temperature can be explained qualitatively by the calculations made by Chang and Gloersen (Reference 3). When there is more than 10 percent free water within the snowpack, the measured brightness temperatures for all four frequencies were very close to the physical temperature of the snowpack. This characteristic may be used to determine the onset of melting of the snowpack.

REFERENCES

1. Rango, A., V. V. Salomonson, and J. L. Foster, "Employment of Satellite Snowcover Observations for Improving Seasonal Runoff Estimates," Proceedings of a Workshop on Operational Applications of Satellite Snowcover Observations, NASA SP-391, 1975, pp. 157-174.
2. Chang, T. C., P. Gloersen, T. Schmugge, T. T. Wilheit, and H. J. Zwally, "Microwave Emission from Snow and Glacier Ice," Journal of Glaciology, Vol. 16, 1976, pp. 23-39.
3. Chang, T. C., and P. Gloersen, "Microwave Emission from Dry and Wet Snow," Proceedings of the Workshop on Operational Applications of Satellite Snowcover Observations, NASA SP-391, 1975, pp. 399-407.

APPENDIX A GROUND TRUTH DATA

In order to better understand the relationship between the measured brightness temperature and the physical characteristics of the snowpack, snow-density and temperature profiles, relative hardness, and free-liquid water content were documented for each test site during this experiment. Simple descriptions of each measurement are given, and the measured ground truth data are shown in figures A-1 to A-16.

SNOW DENSITY

Snow-density samples were taken with a cubic box with a volume of 100 cm³. The box was inserted parallel to the snow layering for layer properties. Snow density was computed by comparing the weight of the box when empty and when filled with snow.

SNOW TEMPERATURE

Snow temperatures were taken by inserting into the snowpack a copper-constantan thermocouple, mounted on the tip of a stainless steel tube. After the thermocouple reached apparent equilibrium, the temperature was recorded from the digital readout (accurate within $\pm 0.1^{\circ}\text{C}$).

RAM PENETROMETER

This instrument is driven slowly into the snowpack by blows from a hammer that is dropped down a guide rod from known heights. After one or more blows (depending on the hardness of the snowpack), the penetration of the ram is noted. The ram gives quick and convenient information about the relative strength of the snowpack without excavating a pit. From ram penetration data, it is possible to compute a relative strength index called the "ram number." The equation for computing the ram number is

$$R = T + H + \frac{nfH}{p}$$

when

R = the ram number

T = the mass of the tube

H = the mass of the hammer

n = the number of blows of the hammer

f = the fall height of the hammer

p = the penetration after n blows

MEASURED DENSITY, HARDNESS, TEMPERATURE, AND RAM NUMBER

Figures A-1 to A-8 show the actual measurements of density, hardness, temperature, and ram number taken during the experiment.

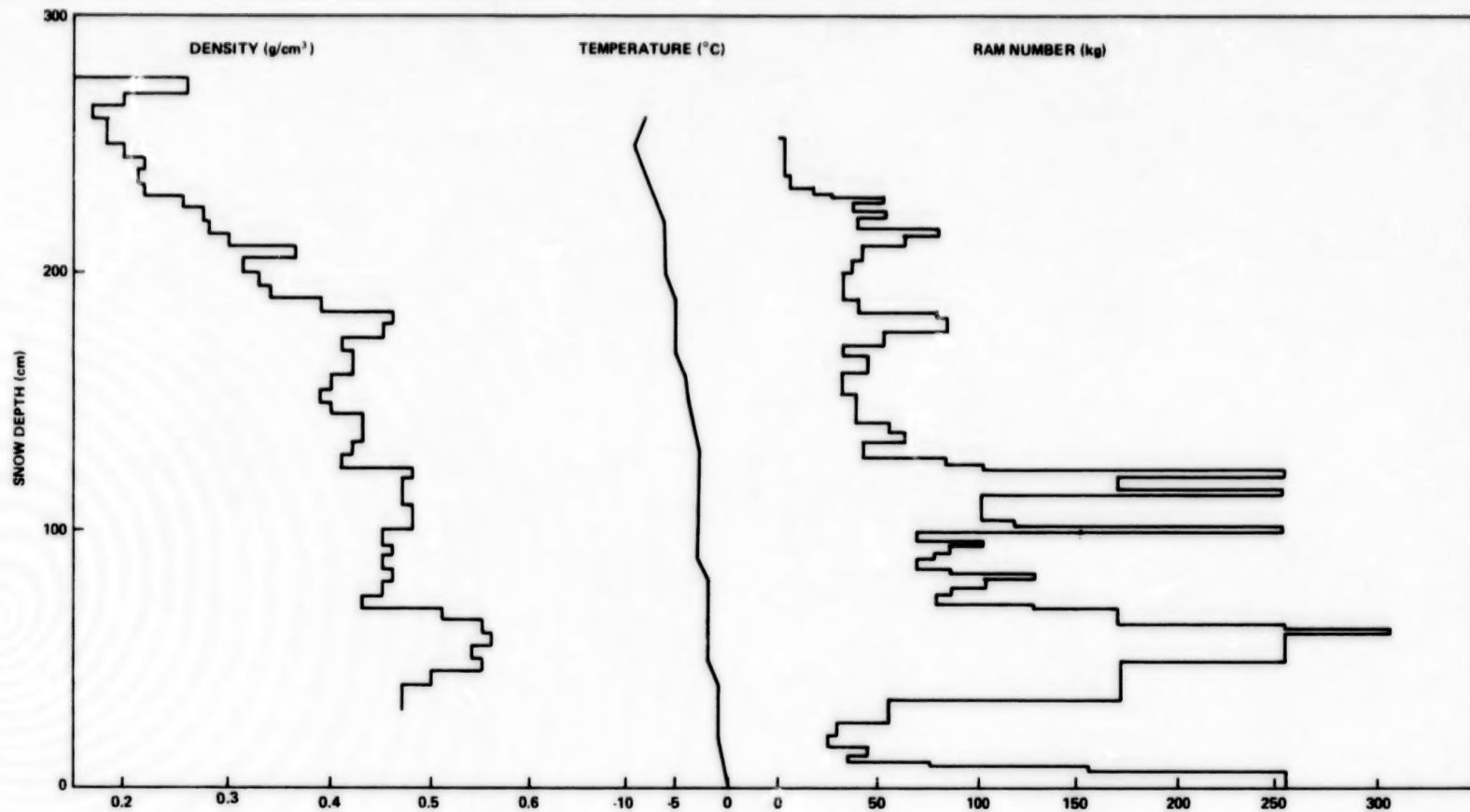


Figure A-1. Loveland Pass site I, March 17, 1978.

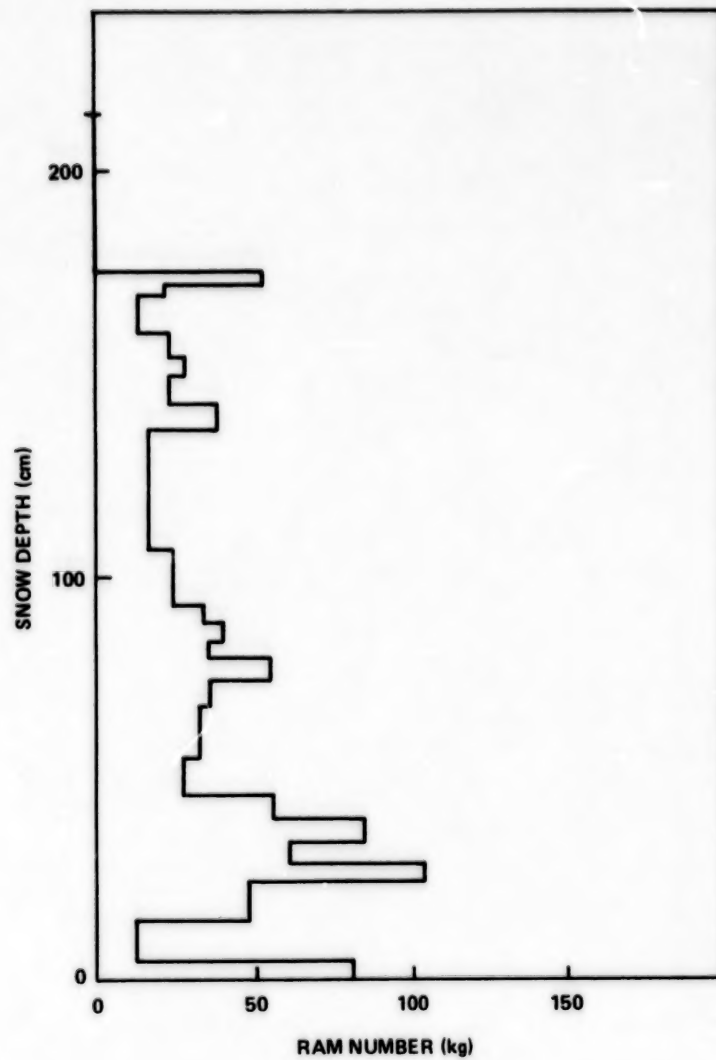


Figure A-2. Loveland Pass site III, March 17, 1978.

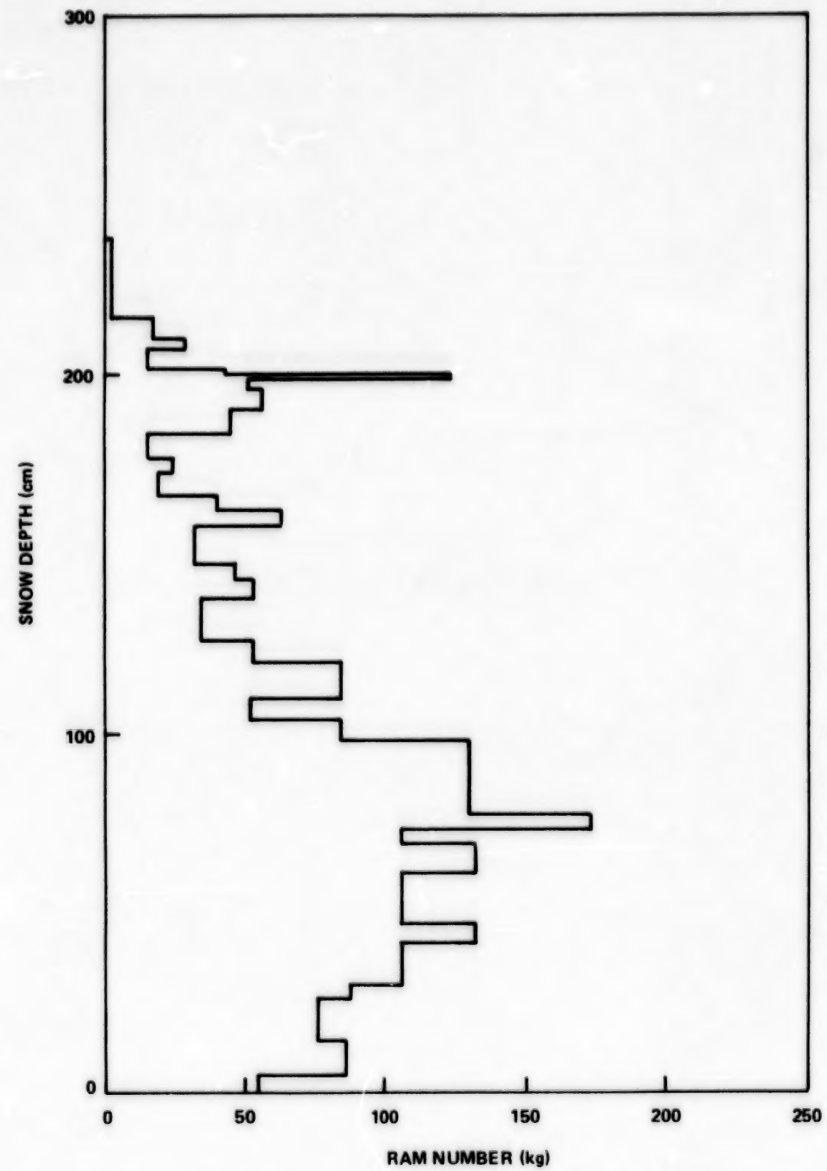


Figure A-3. Loveland Pass site IV, March 17, 1978.

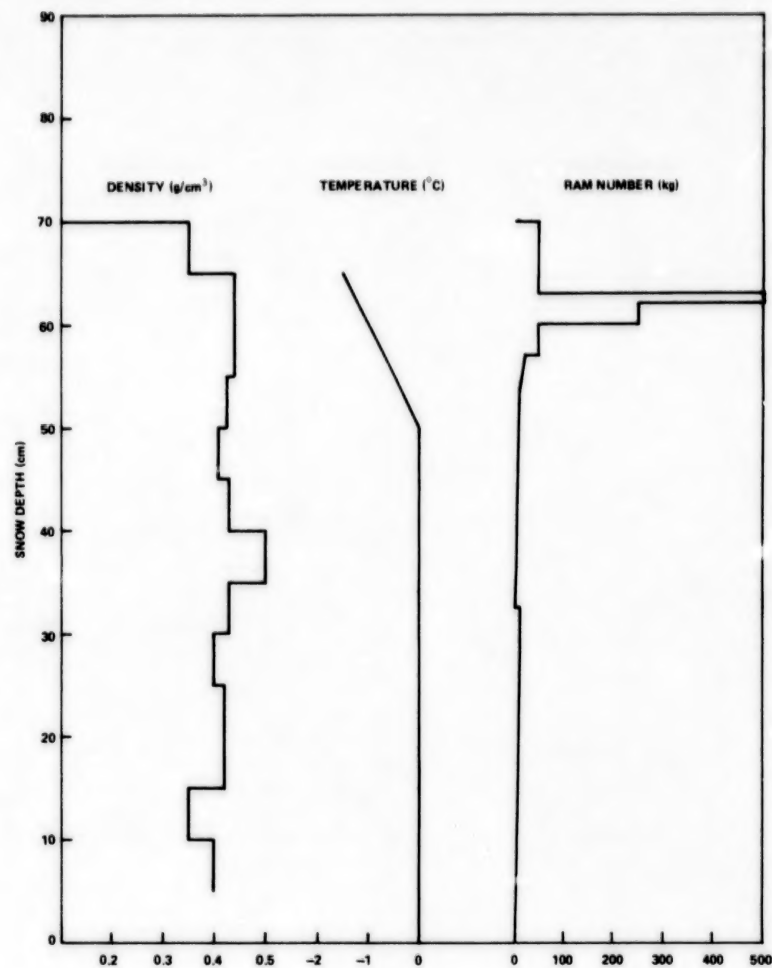


Figure A-4. Steamboat Springs haystack site, March 28, 1978.

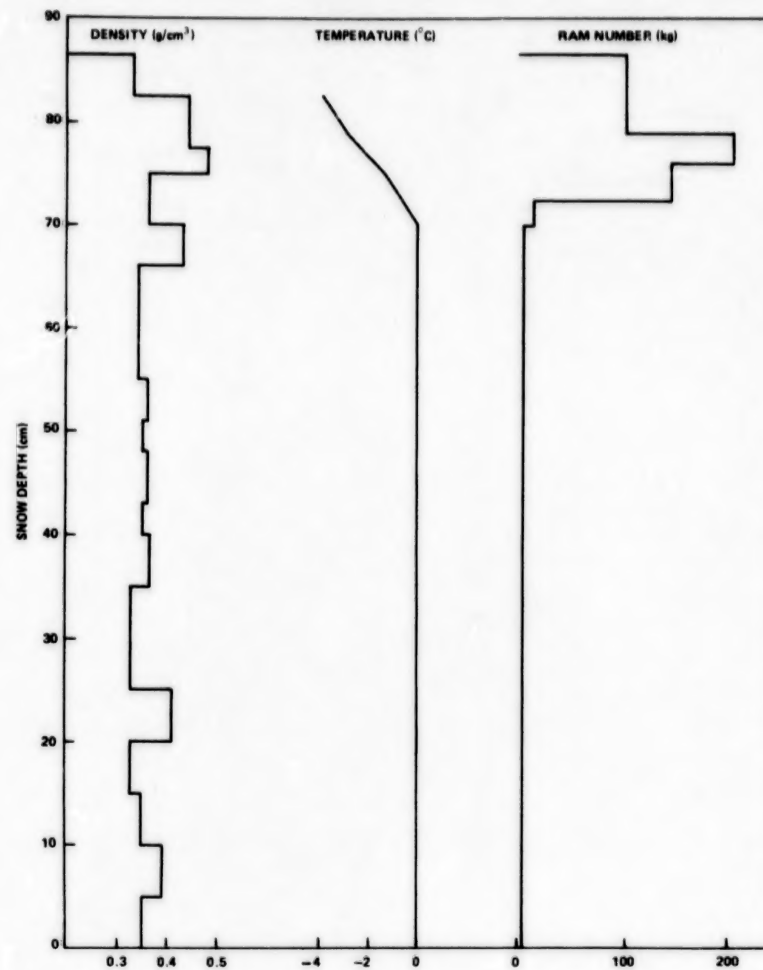


Figure A-5. Steamboat Springs mile 3 site, March 29, 1978.

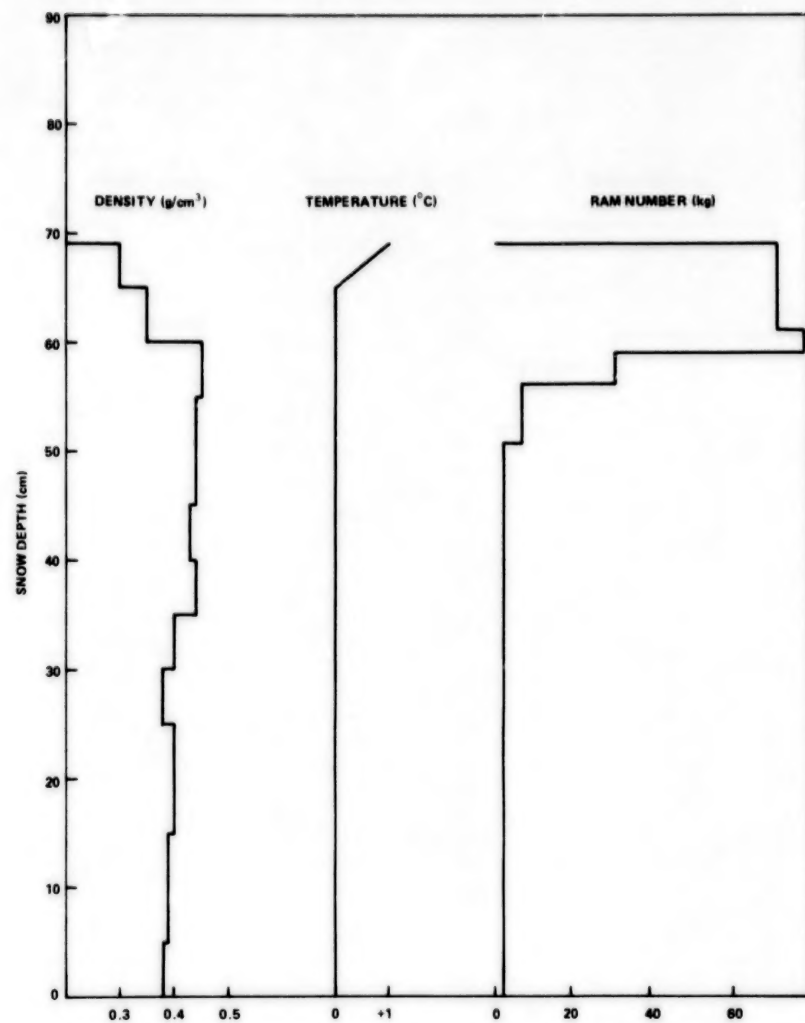


Figure A-6. Steamboat Springs mile 4 site, March 29, 1978.

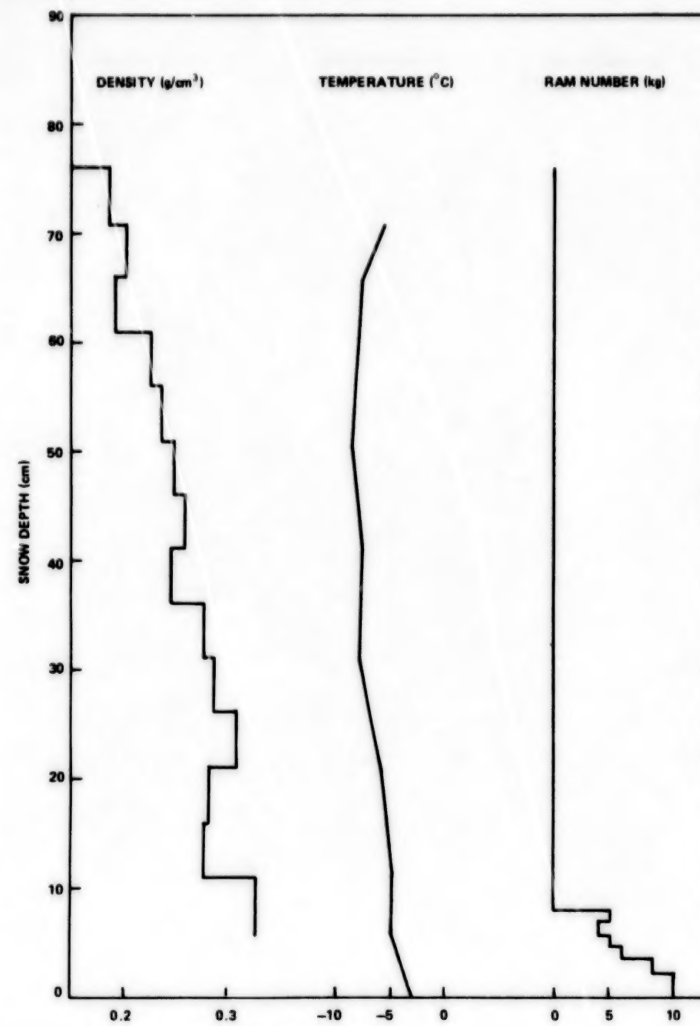


Figure A-7. Regis College pasture site I, February 17, 1978.

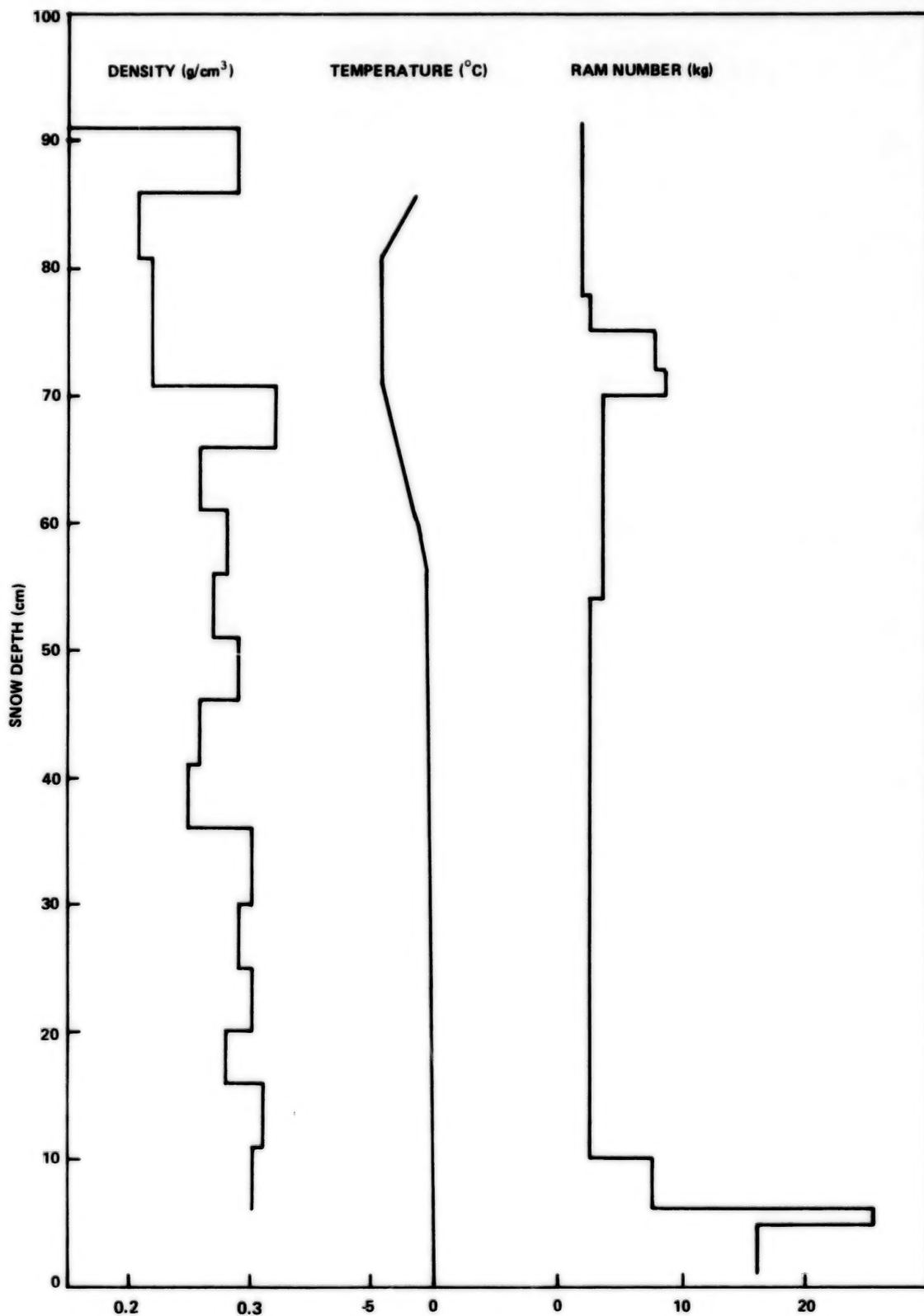


Figure A-8. Regis College pasture site IV, March 8, 1978.

FREEZING CALORIMETRY

The determination of snow liquid-water content through the use of the freezing calorimetry method has been demonstrated to be relatively accurate and field-adaptable by Radok (Reference 1) and Leaf (Reference 2). The method involves a heat-balance relationship occurring between a freezing agent and the liquid water contained in a snow sample as they are mixed together in a closed container. The type of container usually used for the mixing process is a vacuum-insulated bottle with a temperature probe and a tight-fitting rubber stopper. The temperature probe monitors the temperature changes that occur during the mixing process.

When a warm fluid is mixed with a cold fluid in a calorimeter bottle, the heat which is lost by the warm fluid must be equal to the heat gained by the cold fluid and the bottle itself. The heat-balance equation is:

$$\frac{\text{Heat lost by warm fluid}}{\left[W_{t_{\text{warm}}} \right] \left[\frac{Cs_w + Cs_2}{2} \right] \left[T_w - T_2 \right]} = \frac{\text{heat gained by cold fluid + bottle}}{\left[W_{t_{\text{cold}}} + E \right] \left[\frac{Cs_1 + Cs_2}{2} \right] \left[T_2 - T_1 \right]}$$

where

$W_{t_{\text{warm}}}$ = weight of warm fluid

$W_{t_{\text{cold}}}$ = weight of cold fluid

E = calorimeter constant expressed in equivalent grams of fluid

T_w = initial temperature of warm fluid before mixing

T_1 = initial temperature of cold fluid before mixing

T_2 = final temperature of warm-cold fluid mix

Cs_w = specific heat of fluid at temperature of warm fluid

Cs_1 = specific heat of fluid at temperature of cold fluid

Cs_2 = specific heat of fluid at final temperature of mix

The fluid weights are directly obtainable and can be determined with reasonably high accuracy. Also, the specific heats of the fluid can be obtained directly from physical handbooks after the corresponding temperatures have been determined. The determination of the initial and final temperatures of the fluid is the most critical and time-consuming part of the process. These determinations are also the greatest potential source of errors in the system.

CENTRIFUGAL SEPARATION METHOD

The principle of the centrifugal separation technique is simply to centrifuge a wet snow sample which has been placed in a centrifuge tube with a fine screen mounted near the bottom. As centrifuge progresses, the liquid water within the snow sample flows into the bottom of the centrifuge tube where the water volume can be measured.

MEASUREMENT OF LIQUID WATER IN SNOW

Figures A-9 to A-16 show the actual measurements of liquid water in snow (by percentage) taken during the experiment.

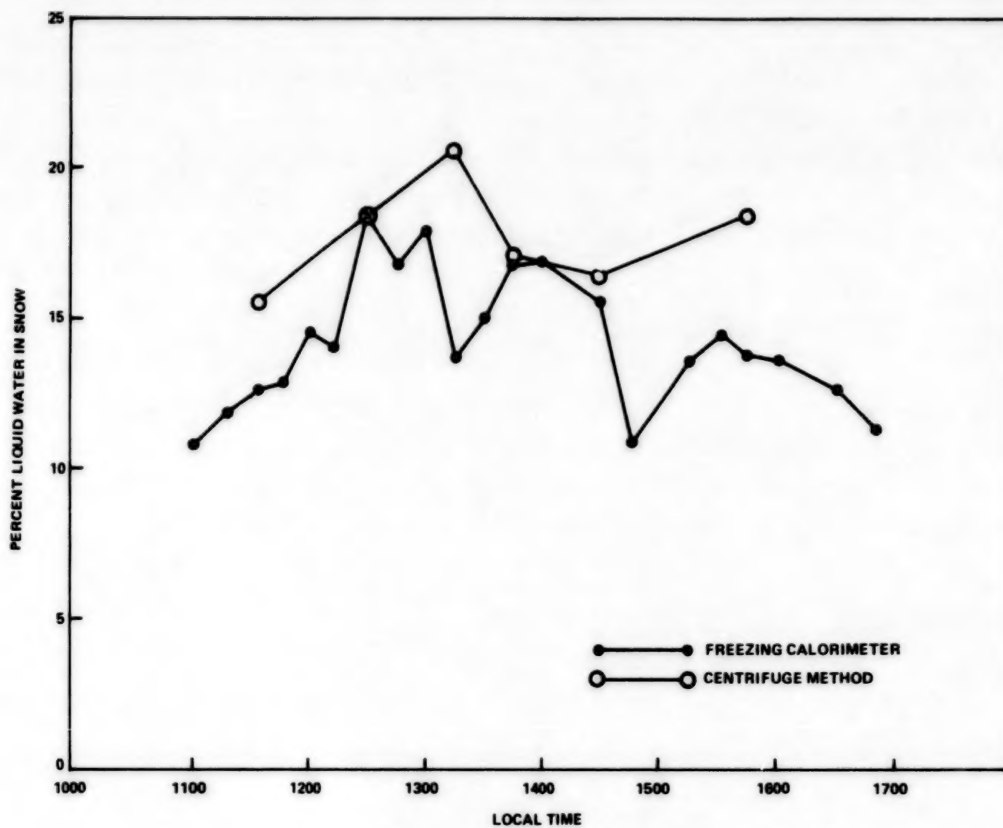


Figure A-9. Percentage of liquid water in snow versus time.
Regis College pasture site, March 21, 1978.

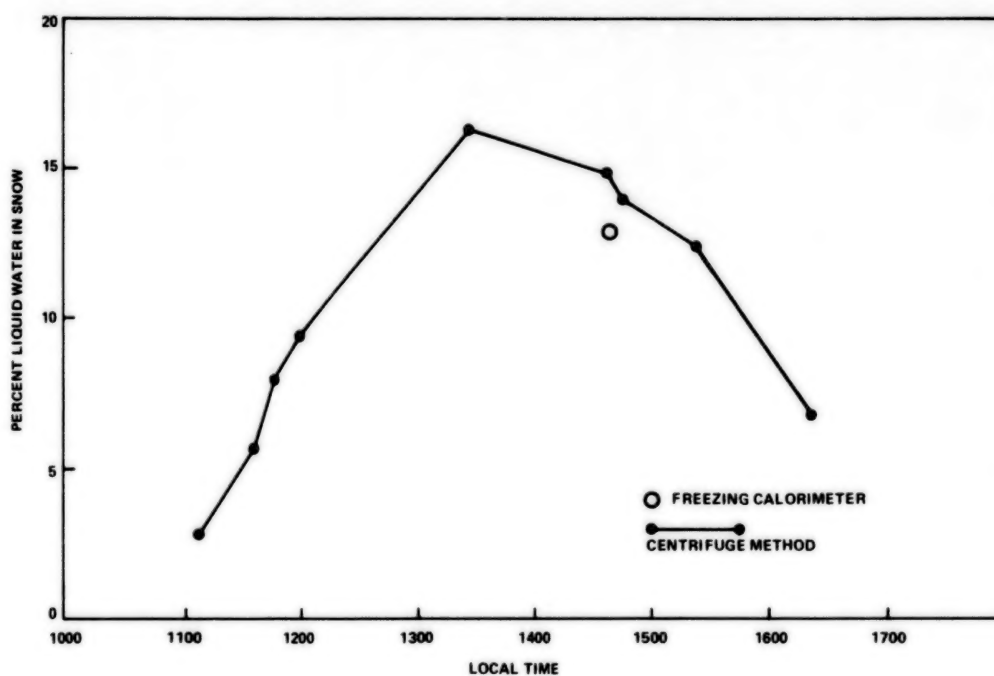


Figure A-10. Percentage of liquid water in snow versus time.
Regis College pasture site, March 22, 1978.

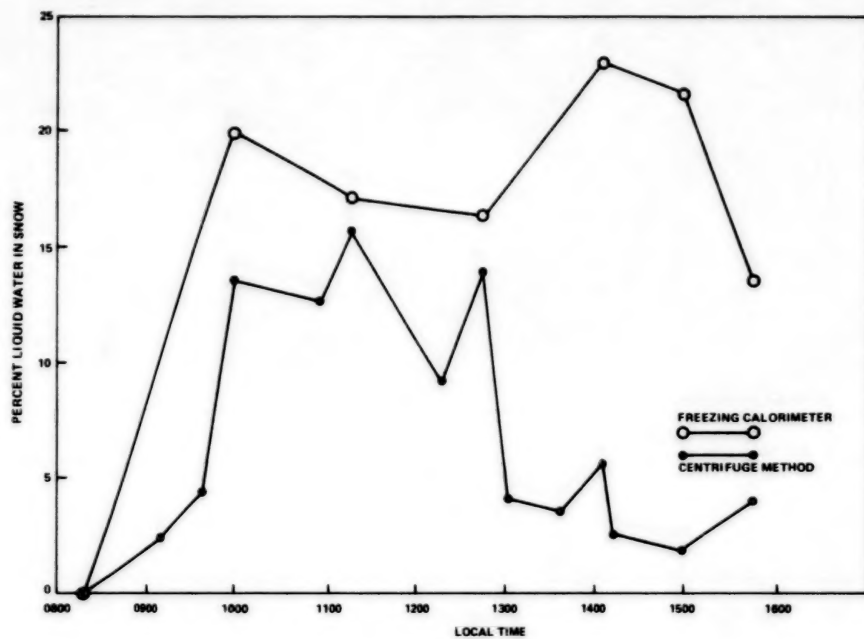


Figure A-11. Percentage of liquid water in snow versus time.
Regis College pasture site, March 23, 1978.

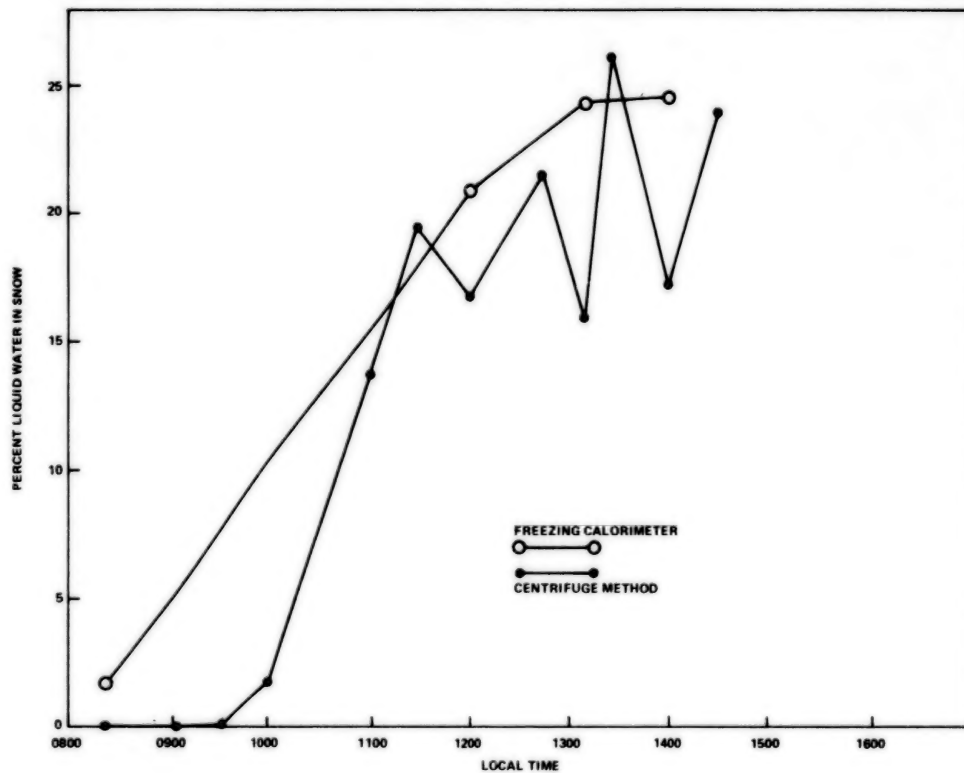


Figure A-12. Percentage of liquid water in snow versus time.
Steamboat Springs haystack site, March 28, 1978.

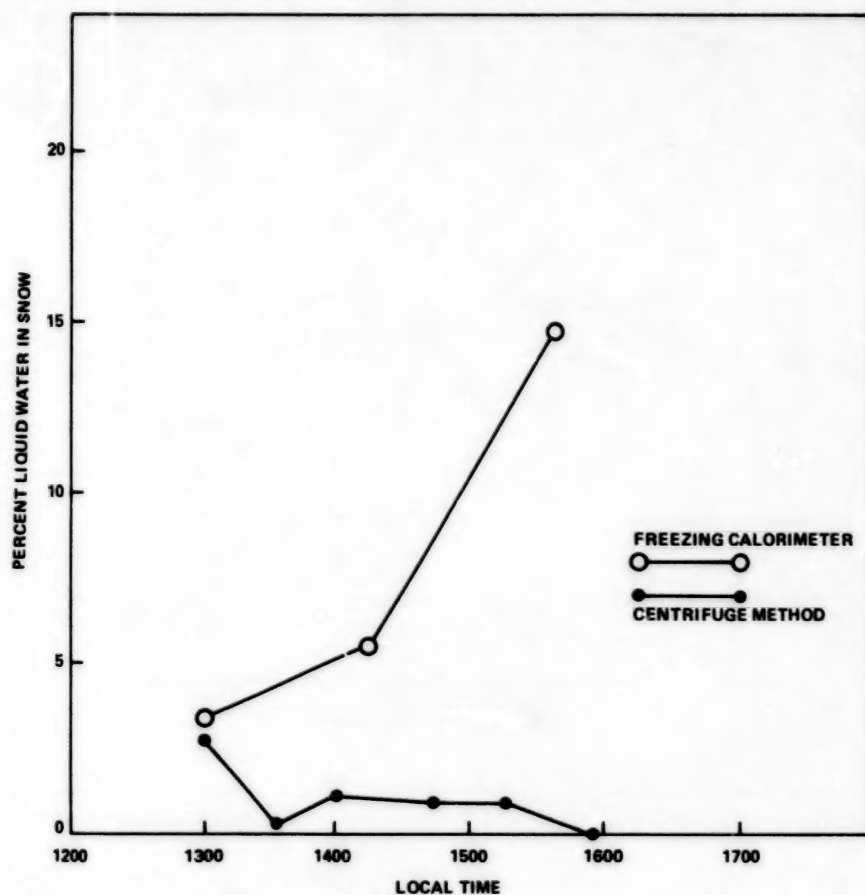


Figure A-13. Percentage of liquid water in snow versus time.
Regis College pasture site, March 1, 1978.

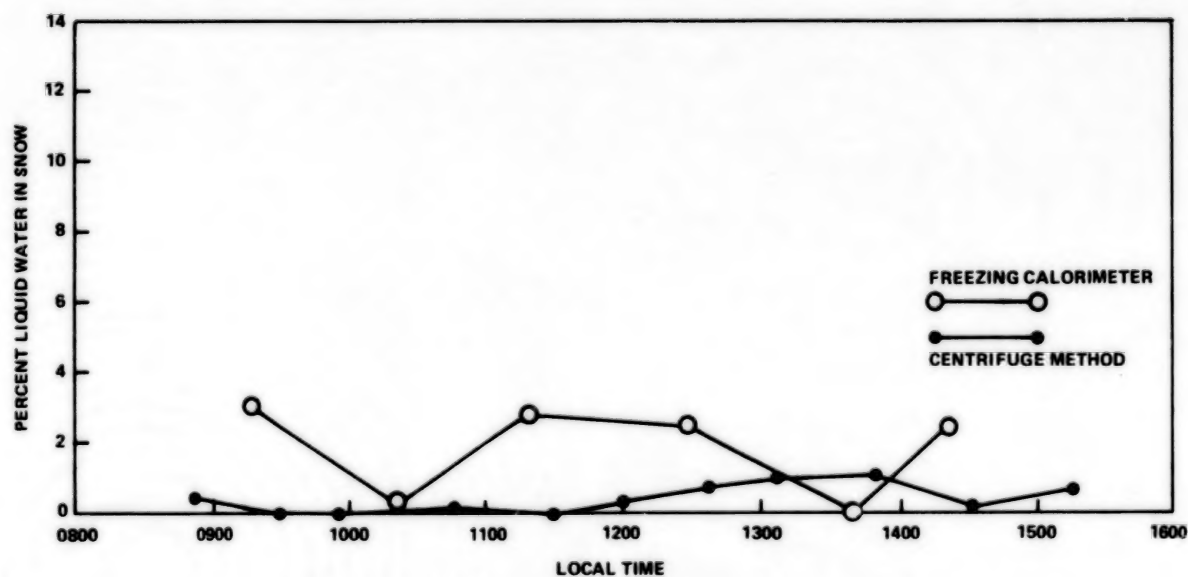


Figure A-14. Percentage of liquid water in snow versus time.
Regis College pasture site, March 2, 1978.

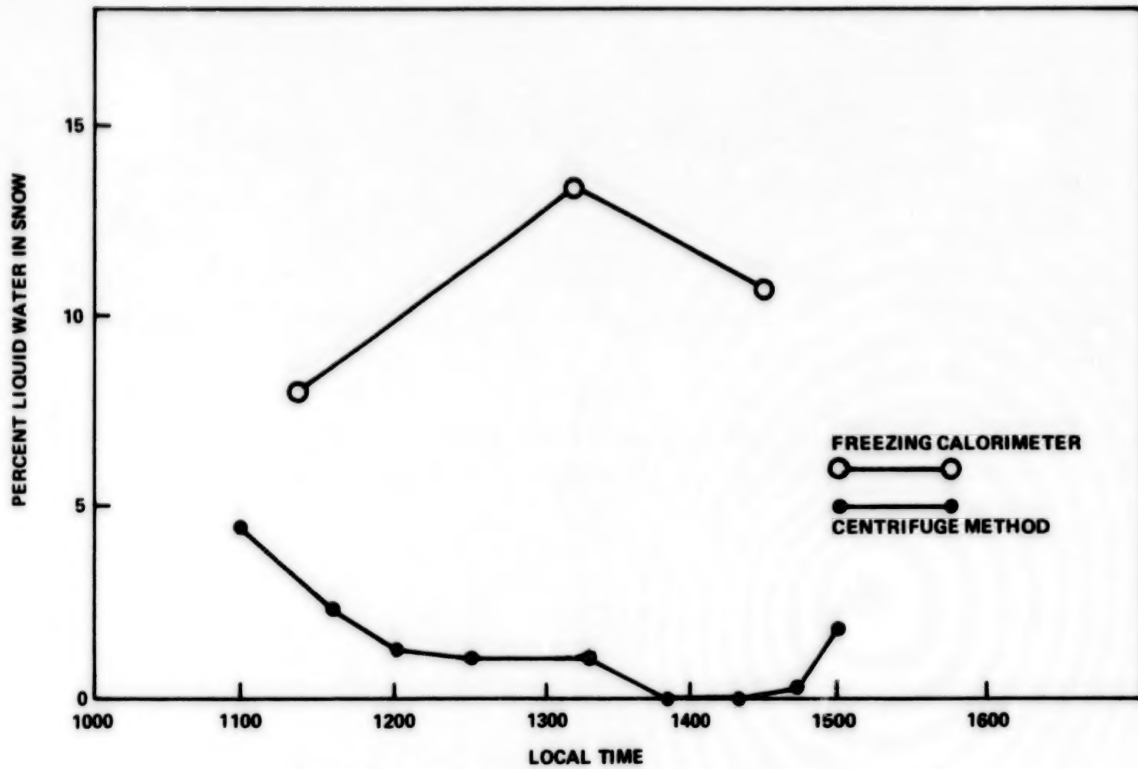


Figure A-15. Percentage of liquid water in snow versus time.
Regis College pasture site, March 7, 1978.

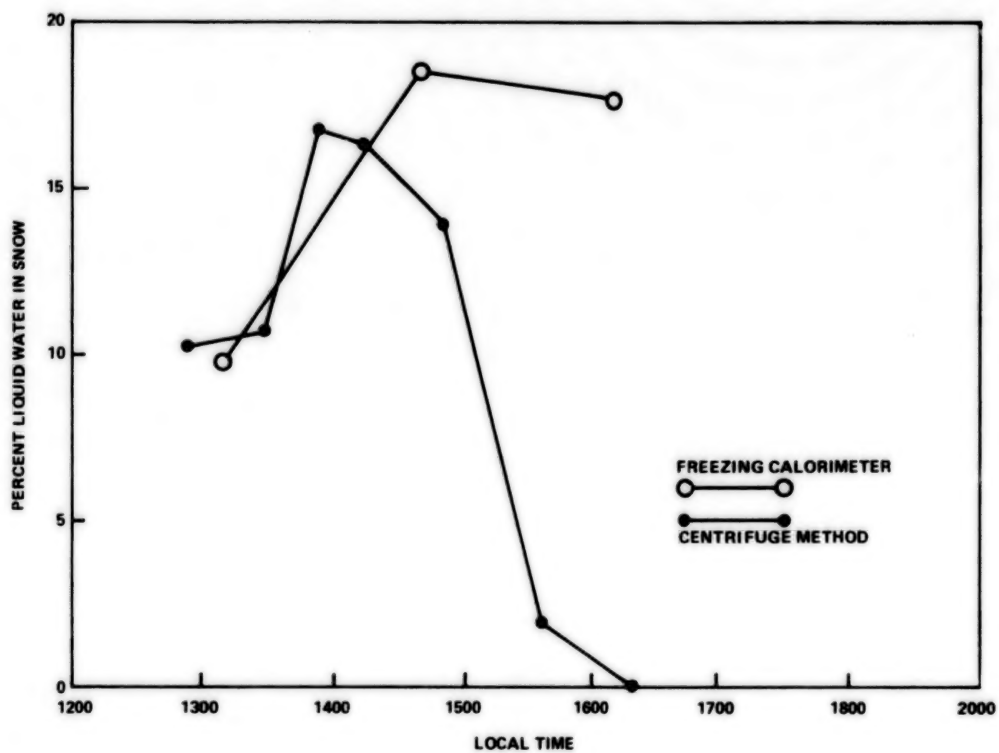


Figure A-16. Percentage of liquid water in snow versus time.
Regis College pasture site, March 9, 1978.

APPENDIX A REFERENCES

1. Radok, J., S. K. Stephens, and K. L. Sutherland, "On the Calorimetric Determination of Snow Quality," U.G.G.I. Assembly, Commission of Snow and Ice, Helsinki, I.A.S.H. no. 54, 1960, pp. 132-135.
2. Leaf, C. F., "Free Water Content of Snowpack in Subalpine Areas," Proceedings, 34th Western Snow Conference, Seattle, Washington, 1966, pp. 17-24.

APPENDIX B

SNOW BRIGHTNESS TEMPERATURES

The following printout shows the calculated brightness temperatures, arranged in chronological order. The incidence angle, the interpreted hot-load temperature, the antenna temperature for each radiometer, and remarks are also listed,

where

REC #	=	record number
INCLIN	=	incidence angle in degrees of inclination
T(V)	=	brightness temperature, vertical polarization (K)
T(H)	=	brightness temperature, horizontal polarization (K)
HOT LD	=	hot calibration load temperature (K)
ANT	=	physical temperature of the antenna (K)
MON	=	month of the year
DAY	=	day of the month
HR	=	hour
MIN	=	minute

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REC # 1,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	INC=2.7V	SCAN
MON = 2	5 GHZ	267.2	254.0	303.0	284.0		
DAY = 15	10 GHZ	257.4	240.2	311.6	284.0		
HR = 14	18 GHZ	266.3	257.1	299.1	284.0		
MIN = 0	37 GHZ	220.0	212.4	306.2	280.7		
REC # 2,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	INC=+.14V	SCAN
MON = 2	5 GHZ	266.8	254.1	302.2	285.6		
DAY = 15	10 GHZ	257.6	239.6	311.1	285.6		
HR = 14	18 GHZ	265.4	253.9	300.4	306.2		
MIN = 30	37 GHZ	217.1	211.8	305.4	279.9		
REC # 3,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	INC=-.224V	SCAN
MON = 2	5 GHZ	264.8	255.9	302.1	284.6		
DAY = 15	10 GHZ	259.2	251.6	311.1	284.6		
HR = 14	18 GHZ	266.0	259.2	300.3	301.1		
MIN = 35	37 GHZ	214.7	214.0	305.1	279.7		
REC # 4,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	INC=-.58V	SCAN
MON = 2	5 GHZ	261.2	256.0	301.9	284.6	STILL LEAKS LN2 -	
DAY = 15	10 GHZ	256.9	252.4	311.1	284.6	NO 10 DEG & NADIR DATA	
HR = 14	18 GHZ	265.4	261.9	300.0	299.4		
MIN = 40	37 GHZ	209.2	208.6	304.7	279.4		
REC # 5,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	INC=-.55V	SPOT
MON = 2	5 GHZ	257.9	252.4	301.3	281.6		
DAY = 15	10 GHZ	258.7	256.4	311.2	281.6		
HR = 14	18 GHZ	264.2	260.8	298.1	286.3		
MIN = 55	37 GHZ	210.0	209.5	303.2	277.9		
REC # 6,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	INC=-.27V	SPOT
MON = 2	5 GHZ	260.9	251.6	301.1	280.5		
DAY = 15	10 GHZ	259.0	252.2	311.1	280.5		
HR = 15	18 GHZ	265.4	259.5	297.7	283.6		
MIN = 2	37 GHZ	218.1	215.5	302.9	277.6		
REC # 7,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	INC=+.18V	SPOT
MON = 2	5 GHZ	263.4	247.4	300.9	279.9		
DAY = 15	10 GHZ	259.6	244.0	311.1	279.9		
HR = 15	18 GHZ	264.8	255.8	297.6	282.4		
MIN = 7	37 GHZ	221.7	212.8	302.7	277.6		
REC # 8,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	INC=+.52V	SPOT
MON = 2	5 GHZ	265.1	239.9	300.8	279.9		
DAY = 15	10 GHZ	259.7	240.9	311.0	279.9		
HR = 15	18 GHZ	265.7	251.7	297.5	283.6		
MIN = 13	37 GHZ	222.9	205.4	302.6	277.2		
REC # 9,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	INC=+.53V	ROUGH SURFACE
MON = 2	5 GHZ	261.9	227.3	300.6	282.1		
DAY = 15	10 GHZ	253.9	227.5	310.8	282.1		
HR = 15	18 GHZ	263.3	251.2	297.7	296.2		
MIN = 20	37 GHZ	215.1	208.9	302.6	277.0		
REC # 10,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	INC=+.87V	SPOT
MON = 2	5 GHZ	261.9	229.0	300.4	283.7		
DAY = 15	10 GHZ	258.0	229.5	310.7	283.7		
HR = 15	18 GHZ	266.3	249.8	297.6	307.5		
MIN = 30	37 GHZ	219.8	202.9	302.6	276.6		

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REC # 11,	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	INC=1.35V	SPOT
MON = 2	5 GHZ	236.9	188.1	300.4	284.0		
DAY = 15	10 GHZ	240.7	201.0	310.6	284.0		
HR = 15	18 GHZ	260.2	208.1	297.6	309.4		
MIN = 32	37 GHZ	196.5	167.0	302.7	276.8		
REC # 12,	INCLIN = 130	T(V)	T(H)	HOT LD.	ANT.	-6C AIR TEMP.	CLEAR SKY.
MON = 2	5 GHZ	-7.3	-2.5	300.3	284.6	INC=2.66V	
DAY = 15	10 GHZ	8.1	8.0	310.6	284.6		
HR = 15	18 GHZ	19.0	24.8	297.5	313.1		
MIN = 37	37 GHZ	16.8	30.6	302.8	276.7		
REC # 13,	INCLIN = 130	T(V)	T(H)	HOT LD.	ANT.	130 DEG UP LOOKING	
MON = 2	5 GHZ	-7.7	-3.0	300.2	285.1	CLOUD SPOT - THICK SNOW CLOUD	
DAY = 15	10 GHZ	8.2	7.6	310.6	285.1	C BAND WITH 20 MIL PLASTIC COVER	
HR = 15	18 GHZ	21.7	27.2	297.4	314.7		
MIN = 44	37 GHZ	17.3	29.8	303.0	276.6		
REC # 14,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	INC=1.53V	SCAN
MON = 2	5 GHZ	213.8	173.9	300.3	284.8	TIME APPROXIMATED	
DAY = 15	10 GHZ	225.6	187.2	310.7	284.8		
HR = 15	18 GHZ	212.2	197.0	297.5	313.7		
MIN = 46	37 GHZ	168.3	144.0	303.9	276.6		
REC # 15,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	INC=+1.16V	SCAN
MON = 2	5 GHZ	251.3	207.3	300.2	282.4		
DAY = 15	10 GHZ	251.0	204.2	310.7	282.4		
HR = 15	18 GHZ	259.5	205.9	297.4	305.6		
MIN = 52	37 GHZ	205.0	185.4	304.0	276.3		
REC # 16,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	INC=+.86V	SCAN
MON = 2	5 GHZ	261.1	225.4	300.1	280.9		
DAY = 15	10 GHZ	258.5	229.6	310.7	280.9		
HR = 15	18 GHZ	264.2	210.8	297.2	297.5		
MIN = 57	37 GHZ	215.6	200.1	303.9	276.1		
REC # 17,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	INC=+.49V	SCAN
MON = 2	5 GHZ	261.8	237.3	300.1	280.1		
DAY = 15	10 GHZ	260.2	237.4	310.7	280.1		
HR = 16	18 GHZ	266.0	250.4	297.0	292.9		
MIN = 0	37 GHZ	219.6	204.0	303.8	275.7		
REC # 18,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	INC=+.19V	SCAN
MON = 2	5 GHZ	258.8	242.5	300.1	279.6		
DAY = 15	10 GHZ	259.9	244.7	310.7	279.6		
HR = 16	18 GHZ	266.9	258.5	296.9	291.4		
MIN = 2	37 GHZ	217.3	208.7	303.6	275.4		
REC # 19,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	SHOOTH (COMPARISON TO ROUGH SNOW)	
MON = 2	5 GHZ	260.7	245.8	300.0	278.6	INC=+.19V	
DAY = 15	10 GHZ	258.1	243.4	310.7	278.6	TIME APPROXIMATED	
HR = 16	18 GHZ	268.2	257.1	296.6	287.9		
MIN = 7	37 GHZ	216.6	207.2	303.3	275.2		
REC # 20,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	ROUGH UP TOP 5 CH. SURFACE	
MON = 2	5 GHZ	260.7	243.2	299.9	277.8		
DAY = 15	10 GHZ	257.7	243.4	310.7	277.8		
HR = 16	18 GHZ	265.4	259.6	296.3	284.6		
MIN = 12	37 GHZ	214.3	207.4	302.8	274.9		

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 21,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	256.4	243.7	299.6	277.4	COMPACT SURFACE 10 IN. OF SNOW
DAY = 15	10 GHZ	255.9	247.0	310.7	277.4	ROUGH
HR = 16	18 GHZ	264.2	258.5	295.3	281.2	APPROXIMATED TIME
MIN = 18	37 GHZ	214.8	212.0	300.9	274.6	
REC # 22,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	261.0	252.2	299.5	276.8	BOOM OUT - SNOW DEPTH REDUCED
DAY = 15	10 GHZ	260.3	247.4	310.7	276.8	INC=.20V
HR = 16	18 GHZ	266.3	256.3	295.0	279.4	
MIN = 23	37 GHZ	201.8	188.8	300.5	273.6	
REC # 23,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	259.7	234.4	299.4	277.8	INC=.52V
DAY = 15	10 GHZ	259.6	241.8	310.7	277.8	SCAN
HR = 16	18 GHZ	266.3	252.3	294.8	284.8	
MIN = 27	37 GHZ	205.3	186.9	300.2	273.4	
REC # 24,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.5	215.7	299.4	279.3	INC=.85V
DAY = 15	10 GHZ	254.2	225.1	310.7	279.3	SCAN
HR = 16	18 GHZ	262.6	211.3	294.7	295.9	
MIN = 33	37 GHZ	203.7	188.0	300.0	272.8	
REC # 25,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	245.1	192.7	299.4	279.9	INC=1.50V
DAY = 15	10 GHZ	252.1	224.4	310.7	279.9	SCAN
HR = 16	18 GHZ	261.4	212.1	294.6	300.4	
MIN = 37	37 GHZ	195.1	169.3	299.9	272.4	
REC # 26,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	251.5	156.6	299.4	280.2	INC=1.55V
DAY = 15	10 GHZ	229.7	198.6	310.7	280.2	
HR = 16	18 GHZ	214.6	200.9	294.8	303.0	
MIN = 45	37 GHZ	174.5	145.1	300.1	272.3	

END OF RUN.

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REC # 1, 2	INCLIN = 135	T(V)	T(H)	HOT LD.	ANT.	45 DEGREE UP. AIR TEMP = -10C
MON = 16	5 GHZ	2.6	5.4	297.3	268.7	SKY CAL
DAY = 16	10 GHZ	2.9	4.5	311.1	268.7	INC=2.58V
HR = 10	18 GHZ	10.0	10.0	290.9	275.4	
MIN = 35	37 GHZ	9.6	24.6	302.2	270.8	
REC # 2, 2	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	SCAN 80 DEGREE
MON = 16	5 GHZ	210.3	169.9	298.0	268.7	SNOW ABOUT 30 INCHES
DAY = 16	10 GHZ	187.8	147.5	311.1	268.7	INC=1.54V
HR = 10	18 GHZ	217.2	190.2	292.1	275.4	
MIN = 42	37 GHZ	148.0	104.7	303.0	271.2	
REC # 3, 2	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	SCAN 70 DEGREE
MON = 16	5 GHZ	255.3	216.1	297.2	269.3	SWATH
DAY = 16	10 GHZ	243.6	209.1	311.1	269.3	INC=1.15V
HR = 10	18 GHZ	249.7	221.0	292.6	275.8	
MIN = 46	37 GHZ	190.0	162.8	302.0	271.7	
REC # 4, 2	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	SCAN 60 DEGREE
MON = 16	5 GHZ	265.6	235.8	297.2	269.9	SWATH
DAY = 16	10 GHZ	253.1	220.7	311.1	269.9	INC=.85V
HR = 10	18 GHZ	262.0	238.7	293.0	276.2	
MIN = 49	37 GHZ	206.5	189.1	302.1	272.2	
REC # 5, 2	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SCAN 50 DEGREE
MON = 16	5 GHZ	268.4	247.0	297.3	270.0	SWATH
DAY = 16	10 GHZ	257.0	237.3	311.1	270.0	INC=.50V
HR = 10	18 GHZ	261.6	250.2	293.3	276.4	
MIN = 51	37 GHZ	211.8	197.1	302.2	272.4	
REC # 6, 2	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	SCAN 45 DEGREE
MON = 16	5 GHZ	267.2	251.1	297.4	270.8	SWATH
DAY = 16	10 GHZ	256.4	235.0	311.2	270.8	INC=.216V
HR = 10	18 GHZ	263.1	171.8	293.7	277.1	
MIN = 54	37 GHZ	212.3	199.1	302.4	273.3	
REC # 7, 2	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SCAN 50 DEGREE
MON = 16	5 GHZ	264.9	247.2	300.0	273.8	FIX ANGLE
DAY = 16	10 GHZ	259.1	229.9	311.6	273.8	INC=.49V
HR = 11	18 GHZ	266.3	253.0	295.7	279.6	
MIN = 15	37 GHZ	212.4	200.5	306.3	276.5	
REC # 8, 2	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SCAN 50 DEGREE
MON = 16	5 GHZ	267.1	249.1	303.2	276.7	FIX ANGLE SNOW DEPTH=30 INCHES
DAY = 16	10 GHZ	259.5	230.3	311.3	276.7	30 FT RADIUS
HR = 12	18 GHZ	263.5	255.5	298.9	282.9	OVER SNOWSHOE TRACK
MIN = 6	37 GHZ	213.9	206.2	312.5	280.3	
REC # 9, 2	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SCAN 50 DEGREE,
MON = 16	5 GHZ	270.1	250.6	303.3	277.0	FIX ANGLE
DAY = 16	10 GHZ	260.0	238.3	311.3	277.0	
HR = 12	18 GHZ	264.2	254.4	299.1	283.2	
MIN = 10	37 GHZ	210.2	196.0	312.6	280.7	
REC # 10, 2	INCLIN = 90	T(V)	T(H)	HOT LD.	ANT.	AMBIENT CAL -2C,
MON = 16	5 GHZ	273.3	272.8	301.3	274.5	AIR TEMP -8.8C
DAY = 16	10 GHZ	267.6	267.7	311.7	274.5	C BAND WITH 30 MIL PLASTIC COVER
HR = 11	18 GHZ	270.0	270.0	297.0	280.1	
MIN = 30	37 GHZ	266.2	266.6	308.4	277.2	

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REC # 11,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SCAN 50 DEGREE, PIX ANGLE
MON = 2	5 GHZ	270.9	250.5	303.4	277.2	
DAY = 16	10 GHZ	259.7	238.2	311.3	277.2	
HR = 12	18 GHZ	266.0	255.2	299.3	283.8	
MIN = 15	37 GHZ	209.3	198.2	312.6	281.2	
REC # 12,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SCAN 50 DEGREE, PIX ANGLE
MON = 2	5 GHZ	270.4	250.0	303.4	277.6	
DAY = 16	10 GHZ	258.8	240.9	311.3	277.6	
HR = 12	18 GHZ	262.6	252.2	299.5	284.2	
MIN = 20	37 GHZ	207.3	196.2	312.5	281.8	
REC # 13,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	268.0	249.9	303.4	277.8	
DAY = 16	10 GHZ	257.1	238.0	311.2	277.8	
HR = 12	18 GHZ	262.9	250.9	299.6	284.4	
MIN = 23	37 GHZ	207.2	199.6	312.4	282.1	
REC # 14,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	267.8	249.1	303.4	277.9	
DAY = 16	10 GHZ	256.5	239.5	311.2	277.9	
HR = 12	18 GHZ	263.9	252.5	299.7	284.4	
MIN = 25	37 GHZ	207.4	198.2	312.3	282.4	
REC # 15,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	265.9	243.0	303.3	278.2	
DAY = 16	10 GHZ	257.4	232.3	311.2	278.2	
HR = 12	18 GHZ	262.0	249.2	299.8	284.7	
MIN = 28	37 GHZ	209.7	200.3	312.2	282.7	
REC # 16,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	269.0	247.4	303.3	278.4	
DAY = 16	10 GHZ	258.1	237.3	311.2	278.4	
HR = 12	18 GHZ	261.7	250.6	299.9	285.0	
MIN = 30	37 GHZ	211.8	200.6	312.0	283.0	
REC # 17,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	268.8	244.8	303.3	278.5	
DAY = 16	10 GHZ	258.2	237.9	311.2	278.5	
HR = 12	18 GHZ	263.2	250.3	299.9	285.2	
MIN = 32	37 GHZ	216.8	202.8	311.9	283.1	
REC # 18,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	270.0	247.6	302.9	278.7	
DAY = 16	10 GHZ	261.2	238.7	311.2	278.7	
HR = 12	18 GHZ	265.1	250.3	300.0	285.4	
MIN = 34	37 GHZ	215.1	206.2	310.9	283.2	
REC # 19,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	LEFT SIDE OF TRUCK SNOW ABOUT 29 INCHES INC=.48V
MON = 2	5 GHZ	257.2	231.3	302.7	279.5	
DAY = 16	10 GHZ	253.2	235.5	311.2	279.5	
HR = 12	18 GHZ	261.7	245.7	300.3	286.0	
MIN = 45	37 GHZ	212.7	202.0	310.1	282.4	
REC # 20,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	INC=.48V
MON = 2	5 GHZ	261.1	234.9	302.6	280.1	
DAY = 16	10 GHZ	246.8	217.3	311.1	280.1	
HR = 12	18 GHZ	263.2	249.5	300.4	285.6	
MIN = 51	37 GHZ	212.5	202.1	309.7	282.6	

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REC # 21,	INCLIN = 80	T (V)	T (H)	HOT LD.	ANT.	INC=1.53V
MON = 2	5 GHZ	212.5	169.8	302.5	280.2	
DAY = 16	10 GHZ	196.5	154.3	311.1	280.2	
HR = 12	18 GHZ	202.6	188.8	300.5	285.5	
MIN = 55	37 GHZ	156.4	124.4	309.5	282.7	
REC # 22,	INCLIN = 70	T (V)	T (H)	HOT LD.	ANT.	INC=1.17V
MON = 2	5 GHZ	252.4	210.1	302.5	280.0	
DAY = 16	10 GHZ	244.3	204.9	311.1	280.0	
HR = 13	18 GHZ	254.8	200.1	300.6	285.7	
MIN = 0	37 GHZ	188.6	157.6	309.3	282.6	
REC # 23,	INCLIN = 60	T (V)	T (H)	HOT LD.	ANT.	INC=.85V
MON = 2	5 GHZ	266.9	241.7	302.5	280.1	
DAY = 16	10 GHZ	257.1	235.5	311.1	280.1	
HR = 13	18 GHZ	261.3	249.5	300.6	285.7	
MIN = 2	37 GHZ	212.0	199.3	309.2	282.6	
REC # 24,	INCLIN = 50	T (V)	T (H)	HOT LD.	ANT.	INC=.49V
MON = 2	5 GHZ	266.8	243.8	302.4	280.2	
DAY = 16	10 GHZ	258.4	236.8	311.1	280.2	
HR = 13	18 GHZ	262.3	250.3	300.7	285.9	
MIN = 5	37 GHZ	215.5	202.7	309.1	282.7	
REC # 25,	INCLIN = 40	T (V)	T (H)	HOT LD.	ANT.	INC=.15V
MON = 2	5 GHZ	263.7	248.9	302.3	280.2	
DAY = 16	10 GHZ	255.8	238.1	311.1	280.2	
HR = 13	18 GHZ	262.9	252.5	300.8	285.7	
MIN = 18	37 GHZ	212.6	202.0	308.8	282.9	
REC # 26,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	INC=-.24V
MON = 2	5 GHZ	259.1	250.7	302.3	280.2	
DAY = 16	10 GHZ	258.1	251.3	311.1	280.2	
HR = 13	18 GHZ	262.3	256.0	300.8	285.7	
MIN = 20	37 GHZ	210.3	206.8	308.7	283.0	
REC # 27,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	10 FEET ABOVE SNOW INC=-.23V
MON = 2	5 GHZ	254.9	245.5	302.3	280.6	
DAY = 16	10 GHZ	259.7	253.0	311.1	280.6	
HR = 13	18 GHZ	262.7	256.3	300.9	286.1	
MIN = 30	37 GHZ	211.5	206.4	308.7	283.4	
REC # 28,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	INC=-.22V 4 FEET ABOVE SNOW
MON = 2	5 GHZ	254.6	245.7	302.6	280.8	
DAY = 16	10 GHZ	259.8	254.0	311.1	280.8	
HR = 13	18 GHZ	263.9	255.8	300.4	286.2	
MIN = 35	37 GHZ	212.8	206.4	309.7	283.6	
REC # 29,	INCLIN = 50	T (V)	T (H)	HOT LD.	ANT.	SNOW PILE EXPERIMENT 10 FT DIAMETER PIT SNOW 28 INCHES INC=.50V
MON = 2	5 GHZ	262.5	240.2	302.6	281.4	
DAY = 16	10 GHZ	258.2	236.2	311.1	281.4	
HR = 14	18 GHZ	263.9	250.9	300.4	286.5	
MIN = 5	37 GHZ	209.3	197.0	309.7	283.5	
REC # 30,	INCLIN = 50	T (V)	T (H)	HOT LD.	ANT.	SNOW 23 INCHES
MON = 2	5 GHZ	255.8	229.3	302.6	281.4	
DAY = 16	10 GHZ	258.2	235.7	311.1	281.4	
HR = 14	18 GHZ	263.3	250.4	300.4	286.5	
MIN = 20	37 GHZ	208.8	198.6	309.7	283.5	

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REC #	INCLIN	FREQ	T(V)	T(H)	HOT LD.	ANT.	NOTES
REC # 31,	INCLIN = 50						
MON = 2	5 GHZ	252.9	230.6	302.6	281.4	SNOW 20 INCHES	
DAY = 16	10 GHZ	257.3	235.7	311.1	281.4		
HR = 14	18 GHZ	261.7	251.5	300.4	286.5		
MIN = 30	37 GHZ	204.3	196.6	309.7	283.5		
REC # 32,	INCLIN = 50						
MON = 2	5 GHZ	246.5	222.8	302.6	281.4	SNOW 14 INCHES	
DAY = 16	10 GHZ	257.3	234.0	311.1	281.4	LN2 GONE FOR 5 GHZ	
HR = 14	18 GHZ	262.6	252.3	300.4	286.5	TIME APPROXIMATED	
MIN = 40	37 GHZ	195.8	191.1	309.7	283.5		
REC # 33,	INCLIN = 50						
MON = 2	5 GHZ	242.2	214.6	302.6	281.4	SNOW 9 INCHES	
DAY = 16	10 GHZ	258.2	236.6	311.1	281.4	TIME APPROXIMATED	
HR = 14	18 GHZ	263.0	254.2	300.4	286.5		
MIN = 50	37 GHZ	205.5	202.5	309.7	283.5		
REC # 34,	INCLIN = 50						
MON = 2	5 GHZ	234.8	216.5	302.6	281.4	TIME APPROXIMATED BOTTOM	
DAY = 16	10 GHZ	259.4	251.3	311.1	281.4	TRACE OF SNOW WITH 1/2 INCH ICE	
HR = 15	18 GHZ	181.6	184.2	300.4	286.5	LAYER.	
MIN = 0	37 GHZ	248.4	246.7	309.7	283.5	AIR TEMP ABOUT -10C	

END OF RUN.

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REC # 1,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. (1-6)
MON = 2	5 GHZ	266.2	256.7	302.5	287.2	WIND DRIFT PACK BEHIND TRUCK
DAY = 22	10 GHZ	259.1	258.7	311.1	285.1	NO AL PLATE YET.
HR = 11	18 GHZ	260.5	258.3	301.1	287.7	GOT TIME FROM XEROX NOTES - FILE 1
MIN = 21	37 GHZ	247.2	244.9	306.2	284.9	
REC # 2,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. (8-11)
MON = 2	5 GHZ	100.3	60.2	303.7	289.9	AL PLATE INSERTED. 58-61 CH SNOW
DAY = 22	10 GHZ	57.5	59.5	311.1	287.1	TIME FROM NOTES - FILE 8
HR = 11	18 GHZ	97.1	93.6	303.0	290.7	
MIN = 55	37 GHZ	110.2	125.9	308.2	287.2	
REC # 3,	INCLIN = 135	T(V)	T(H)	HOT LD.	ANT.	REC NO. (12-14)
MON = 2	5 GHZ	-1.6	-1.2	304.2	291.1	SKY CAL. CLEAR SKY. TEMP=-2C.
DAY = 22	10 GHZ	-0.1	1.8	311.2	288.2	INC=2.605 VOLT
HR = 12	18 GHZ	7.7	9.7	303.9	291.8	TIME FROM NOTES - FILE 12
MIN = 20	37 GHZ	13.6	45.1	308.9	287.8	
REC # 4,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. (16-19)
MON = 2	5 GHZ	71.5	77.7	304.5	292.0	SNOW ON AL PLATE INC=-.22 VOLT
DAY = 22	10 GHZ	143.0	144.4	311.1	289.2	PILE UP WITH WIND DRIFT
HR = 12	18 GHZ	141.7	143.9	304.3	291.5	TIME FROM NOTES - FILE 16
MIN = 55	37 GHZ	167.4	177.0	309.1	287.1	
REC # 5,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. (20-23)
MON = 2	5 GHZ	266.9	257.0	304.6	291.8	NO AL PLATE
DAY = 22	10 GHZ	254.0	242.7	311.1	289.3	NORTH SIDE OF PATH. (NATURAL) PORT
HR = 13	18 GHZ	258.3	255.8	304.0	290.9	SIDE OF TRUCK. (BETWEEN 2 FILES)
MIN = 10	37 GHZ	203.9	200.9	308.7	286.5	INC=-.22V, TIME FROM FILE 20 NOTES
REC # 6,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	REGULAR NATURAL PACK (FILE 24)
MON = 2	5 GHZ	262.8	242.1	304.5	291.2	INC=.15 VOLT
DAY = 22	10 GHZ	256.3	236.3	311.1	289.0	TIME FROM NOTES
HR = 13	18 GHZ	263.7	256.3	303.5	290.2	
MIN = 24	37 GHZ	213.3	208.5	308.1	285.7	
REC # 7,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. 25
MON = 2	5 GHZ	67.0	80.2	304.3	289.3	53 CH SNOW ON AL PLATE
DAY = 22	10 GHZ	127.6	170.1	311.1	288.1	INC=.2 VOLT, CENTER ON 5 GHZ
HR = 13	18 GHZ	170.8	141.3	301.8	288.2	
MIN = 36	37 GHZ	187.4	194.5	306.1	283.9	
REC # 8,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. 26
MON = 2	5 GHZ	174.4	116.6	304.2	288.4	53 CH
DAY = 22	10 GHZ	143.9	165.5	311.1	287.6	MOVE PACK - CENTERED ON 5 GHZ
HR = 13	18 GHZ	130.3	136.6	301.0	287.2	
MIN = 50	37 GHZ	174.3	182.2	305.4	283.0	
REC # 9,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. 27
MON = 2	0 GHZ	0.0	0.0	304.2	288.1	TIME APPROXIMATED
DAY = 22	0 GHZ	0.0	0.0	311.1	287.4	53 CH FENCE ON
HR = 13	0 GHZ	0.0	0.0	300.7	286.9	37 GHZ ONLY 5, 10, 18 MISSING
MIN = 57	37 GHZ	194.4	196.3	305.2	282.7	
REC # 10,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC NO. (28-31)
MON = 2	5 GHZ	79.8	92.5	304.2	287.8	63 CH SNOW. FENCE AROUND AREA
DAY = 22	10 GHZ	179.8	210.3	311.1	287.1	
HR = 14	18 GHZ	184.3	184.1	300.4	286.5	
MIN = 5	37 GHZ	195.4	198.6	305.0	282.4	

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REC # 11,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	85.0	94.1	304.1	287.2	REC NO. (32-35)
DAY = 22	10 GHZ	123.7	162.7	311.1	286.6	95 CH SNOW ON PLATE
HR = 14	18 GHZ	204.5	202.7	300.0	286.0	
MIN = 26	37 GHZ	208.1	210.0	304.9	282.1	
REC # 12,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	42.1	34.6	304.2	287.3	REC NO. (36-39)
DAY = 22	10 GHZ	265.6	277.1	311.1	285.8	115.6 CH SNOW ON PLATE
HR = 14	18 GHZ	196.2	196.2	300.4	286.5	LOW LN2 SHOWED IN 5 GHZ DATA
MIN = 58	37 GHZ	198.8	199.4	306.6	283.3	
REC # 13,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	23.1	25.8	304.2	287.3	REC NO. (40-43)
DAY = 22	10 GHZ	230.3	237.1	311.1	285.7	134.6 CH SNOW ON PLATE
HR = 15	18 GHZ	194.4	193.9	300.4	286.5	
MIN = 25	37 GHZ	179.6	177.0	306.6	283.3	
REC # 14,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	-28.4	-29.8	304.2	287.3	REC NO. (44-47)
DAY = 22	10 GHZ	160.9	158.0	311.1	285.7	146 CH SNOW ON METAL PLATE
HR = 15	18 GHZ	189.3	188.6	300.4	286.5	
MIN = 35	37 GHZ	180.1	181.4	306.6	283.3	

END OF RUN.

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REC # 1, 2	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	REC (1-4) SNOW DEPTH=53.5 INCHES
MON = 2	0 GHZ	0.0	0.0	301.9	280.5	SNOW FENCE REMOVED.
DAY = 23	10 GHZ	177.9	173.4	311.4	278.0	AL PLATE INSERTED.
HR = 11	18 GHZ	193.2	188.7	300.3	283.8	SNOW SCRAPED OFF. INC=-.49V
MIN = 55	37 GHZ	212.1	209.7	307.6	282.1	
REC # 2, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (5-8) 50.5 INCHES SNOW
MON = 2	0 GHZ	0.0	0.0	302.9	282.9	INC=-.7 VOLT
DAY = 23	10 GHZ	148.6	146.4	311.1	280.0	TIME FROM NOTES
HR = 12	18 GHZ	186.2	188.2	302.4	286.5	
MIN = 9	37 GHZ	213.0	211.4	309.8	284.5	
REC # 3, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (9-12) 48 INCHES SNOW
MON = 2	0 GHZ	0.0	0.0	303.3	284.1	9 FEET FROM SNOW
DAY = 23	10 GHZ	144.1	142.8	310.9	281.1	INC=-.7 VOLT
HR = 12	18 GHZ	182.5	184.9	303.5	287.8	TIME FROM NOTES
MIN = 17	37 GHZ	212.0	211.7	310.7	285.7	
REC # 4, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (13-16) 44 INCHES SNOW
MON = 2	0 GHZ	0.0	0.0	304.0	285.9	INC=-.71 V
DAY = 23	10 GHZ	144.4	143.6	310.8	282.7	
HR = 12	18 GHZ	181.1	182.0	304.8	289.7	
MIN = 30	37 GHZ	211.6	212.8	311.7	287.4	
REC # 5, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (17-20) 41.5 INCHES SNOW
MON = 2	5 GHZ	103.8	116.7	304.2	286.7	INC=-.71 V
DAY = 23	10 GHZ	139.1	140.0	311.1	283.7	
HR = 12	18 GHZ	178.8	181.5	305.1	290.5	
MIN = 39	37 GHZ	214.5	214.5	310.5	288.2	
REC # 6, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (21-24) 36 INCHES SNOW
MON = 2	5 GHZ	103.1	114.1	304.6	288.0	INC=-.70 V
DAY = 23	10 GHZ	140.5	140.5	311.1	284.9	
HR = 12	18 GHZ	178.8	179.3	305.9	291.8	
MIN = 50	37 GHZ	209.9	213.6	310.9	289.4	
REC # 7, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (25-28) 33 INCHES SNOW
MON = 2	5 GHZ	98.7	114.9	305.0	289.3	INC=-.70 V
DAY = 23	10 GHZ	131.7	134.3	311.2	286.1	
HR = 13	18 GHZ	179.7	180.8	306.8	293.1	
MIN = 2	37 GHZ	208.2	211.0	311.2	290.6	
REC # 8, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (29-32) 27 INCHES SNOW
MON = 2	5 GHZ	94.7	105.7	305.3	290.1	INC=-.70 V
DAY = 23	10 GHZ	120.6	122.2	311.2	286.9	
HR = 13	18 GHZ	136.0	141.6	307.2	293.8	
MIN = 10	37 GHZ	199.1	202.8	311.4	291.4	
REC # 9, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (33-36) 19 INCHES SNOW
MON = 2	5 GHZ	86.4	98.0	305.5	290.9	INC=-.7 V
DAY = 23	10 GHZ	103.1	105.8	311.2	287.6	
HR = 13	18 GHZ	149.1	147.6	307.7	294.6	
MIN = 19	37 GHZ	184.4	188.1	311.6	292.1	
REC # 10, 2	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (37-40) 12 INCHES SNOW
MON = 2	5 GHZ	82.7	94.3	305.8	291.9	AL PLATE ON BOTTOM
DAY = 23	10 GHZ	96.0	98.6	311.3	288.5	INC=-.7 V
HR = 13	18 GHZ	135.6	113.8	308.2	295.5	
MIN = 30	37 GHZ	150.6	154.4	311.9	293.0	

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REC # 11,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	258.0	256.9	306.0	292.7	REC(41) 33 INCHES SNOW
DAY = 23	10 GHZ	259.1	262.2	311.3	289.2	SWATH SCAN, INC=-1.2 V
HR = 13	18 GHZ	230.0	231.8	308.6	296.1	NATURAL PACK. ON NORTH SIDE
MIN = 40	37 GHZ	209.2	210.0	312.1	293.7	LOOKING NORTH. BOON FULLY EXT.
REC # 12,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	260.4	257.8	306.3	293.3	REC(42) SWATH SCAN
DAY = 23	10 GHZ	256.3	257.0	311.6	289.7	SCAN
HR = 13	18 GHZ	233.7	237.0	308.2	296.3	
MIN = 42	37 GHZ	203.9	207.6	312.6	294.0	
REC # 13,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	260.0	253.6	306.3	293.4	REC(43) SCAN
DAY = 23	10 GHZ	256.1	251.7	311.7	289.8	INC=-.51 V
HR = 13	18 GHZ	234.0	231.0	308.2	296.4	
MIN = 44	37 GHZ	206.1	204.4	312.7	294.1	
REC # 14,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	263.4	251.9	306.3	293.6	REC(44) SCAN
DAY = 23	10 GHZ	256.6	243.7	311.7	289.9	INC=-.22 V
HR = 13	18 GHZ	232.2	225.7	308.3	296.5	
MIN = 46	37 GHZ	206.9	200.1	312.7	294.2	
REC # 15,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	267.3	248.9	306.4	294.0	REC(45) SCAN
DAY = 23	10 GHZ	256.2	235.4	311.7	290.3	INC= .15 V
HR = 13	18 GHZ	232.2	225.0	308.5	296.8	
MIN = 52	37 GHZ	213.2	203.5	312.8	294.6	
REC # 16,	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	45.2	51.7	306.5	294.1	REC(46-49)
DAY = 23	10 GHZ	54.3	56.8	311.7	290.4	AL PLATE SKY CAL
HR = 13	18 GHZ	88.8	90.1	308.5	296.9	INC=-.70 V
MIN = 54	37 GHZ	63.4	75.9	312.8	294.7	
REC # 17,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	269.0	242.2	306.6	294.7	REC(50) LOOKING NORTH SCAN (CONTI)
DAY = 23	10 GHZ	258.5	227.4	311.7	290.8	
HR = 14	18 GHZ	230.2	220.3	308.8	297.2	
MIN = 4	37 GHZ	212.8	194.3	312.8	295.1	
REC # 18,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	264.9	222.5	306.6	294.8	REC(51) SCAN
DAY = 23	10 GHZ	255.3	216.6	311.7	290.8	INC= .85 V
HR = 14	18 GHZ	229.1	212.1	308.9	297.3	
MIN = 6	37 GHZ	206.3	178.5	312.8	295.2	
REC # 19,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	251.9	198.9	306.6	294.9	REC(52) SCAN
DAY = 23	10 GHZ	241.4	192.3	311.7	290.9	INC=1.15 V
HR = 14	18 GHZ	215.7	205.6	308.9	297.4	
MIN = 8	37 GHZ	198.0	172.6	312.8	295.3	
REC # 20,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	210.7	162.5	306.6	294.9	REC(53) SCAN
DAY = 23	10 GHZ	200.1	152.3	311.7	290.9	INC=1.52 V
HR = 14	18 GHZ	174.8	161.2	309.0	297.4	
MIN = 10	37 GHZ	176.5	151.4	312.7	295.3	

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REC # 21, 2	INCLIN = 130	T(V)	T(H)	HOT LD.	ANT.	REC(54) SKY CAL
MON = 2	5 GHZ	3.3	5.3	306.6	295.0	INC=2.74 V AIR TEMP 1C
DAY = 23	10 GHZ	1.4	4.0	311.7	291.0	
HR = 14	18 GHZ	30.0	36.2	309.1	297.5	
MIN = 12	37 GHZ	17.6	30.9	312.7	295.4	
REC # 22, 2	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	REC(55) SPOT SCAN SERIES
MON = 2	5 GHZ	246.9	196.1	306.6	295.4	15 TO 20 FT ABOVE GROUND. LOOKING W
DAY = 23	10 GHZ	240.1	177.0	311.6	291.2	BOOM FULLY EXT. NATURAL PACK
HR = 14	18 GHZ	223.3	178.0	309.4	297.7	29 INCHES SNOW. INC=1.26 V
MIN = 25	37 GHZ	205.4	173.4	312.5	295.7	
REC # 23, 2	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	REC(56) SPOT
MON = 2	5 GHZ	254.5	203.6	306.6	295.5	INC=1.15 V
DAY = 23	10 GHZ	246.7	192.7	311.6	291.2	
HR = 14	18 GHZ	222.9	205.8	309.5	297.7	
MIN = 27	37 GHZ	209.2	176.1	312.5	295.7	
REC # 24, 2	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	REC(57) SPOT
MON = 2	5 GHZ	264.4	226.1	306.6	295.6	INC=.85 V
DAY = 23	10 GHZ	258.4	221.2	311.5	291.2	
HR = 14	18 GHZ	230.3	217.8	309.7	297.7	
MIN = 35	37 GHZ	217.3	186.1	312.2	295.8	
REC # 25, 2	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	REC(58) SPOT
MON = 2	5 GHZ	266.5	236.3	306.5	295.7	INC=.5 V
DAY = 23	10 GHZ	260.6	226.6	311.5	291.2	
HR = 14	18 GHZ	228.5	218.1	309.8	297.7	
MIN = 39	37 GHZ	221.3	200.7	312.1	295.8	
REC # 26, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	REC(59) SPOT
MON = 2	5 GHZ	264.0	244.2	306.3	295.6	INC=.15 V
DAY = 23	10 GHZ	259.6	243.5	311.3	290.9	
HR = 14	18 GHZ	231.1	219.9	310.0	297.5	
MIN = 44	37 GHZ	220.4	208.5	311.6	295.7	
REC # 27, 2	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC(60) SPOT
MON = 2	5 GHZ	261.6	249.7	306.3	295.6	INC=-.22 V
DAY = 23	10 GHZ	252.0	238.6	311.2	290.8	
HR = 14	18 GHZ	229.9	226.1	310.0	297.5	
MIN = 48	37 GHZ	217.7	212.3	311.5	295.7	
REC # 28, 2	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	REC(61) SPOT
MON = 2	5 GHZ	258.0	251.1	306.2	295.6	INC=-.55 V
DAY = 23	10 GHZ	252.6	247.7	311.2	290.8	
HR = 14	18 GHZ	230.2	227.6	310.1	297.4	
MIN = 52	37 GHZ	214.3	213.9	311.3	295.6	
REC # 29, 2	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	REC(62) SPOT
MON = 2	5 GHZ	256.4	252.7	306.2	295.6	INC=-.84 V
DAY = 23	10 GHZ	249.7	248.9	311.2	290.7	
HR = 14	18 GHZ	229.1	229.7	310.2	297.4	
MIN = 56	37 GHZ	211.9	213.5	311.2	295.6	
REC # 30, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REC(63) SPOT
MON = 2	5 GHZ	255.7	253.5	306.2	295.6	
DAY = 23	10 GHZ	250.7	251.3	311.1	290.7	
HR = 15	18 GHZ	230.5	233.3	310.2	297.3	
MIN = 0	37 GHZ	205.4	209.6	311.1	295.6	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
31,	2				20					
					5 GHZ	255.6	246.8	306.2	295.6	REC(64) 34 INCHES SNOW
					10 GHZ	251.6	247.6	311.1	290.6	UNDISTURBED SURFACE
					18 GHZ	231.9	230.2	310.2	297.2	
					37 GHZ	215.3	215.8	311.1	295.6	
32,	2				20					
					5 GHZ	256.7	250.9	306.2	295.4	REC(65-68) 32 INCHES SNOW
					10 GHZ	259.5	257.4	311.1	290.4	REMOVE TOP 2 INCHES SURFACE TO
					18 GHZ	231.4	230.4	310.3	297.0	DEPTH HOAR SHOWN
					37 GHZ	205.8	206.8	310.9	295.4	
33,	2				20					
					5 GHZ	251.2	244.6	306.2	295.2	REC(69-72) PILE UP WITH DEPTH
					10 GHZ	252.0	248.9	311.2	290.1	HOAR TO 40.5 INCHES
					18 GHZ	227.7	229.5	310.3	296.6	
					37 GHZ	200.4	202.6	310.8	295.2	
34,	2				20					
					5 GHZ	252.8	247.6	306.6	294.4	REC(73-76) SAME 40.5 INCHES
					10 GHZ	255.7	253.1	311.6	289.5	SNOW FENCE WITH PLASTIC
					18 GHZ	230.8	231.0	309.8	295.6	
					37 GHZ	215.0	215.9	311.1	294.6	
35,	2				20					
					5 GHZ	249.7	243.9	306.6	294.2	REC(77-80) 48 INCHES DEPTH HOAR
					10 GHZ	253.6	250.5	311.6	289.3	
					18 GHZ	228.7	226.7	309.7	295.3	
					37 GHZ	214.1	214.9	311.1	294.5	
36,	2				15					
					5 GHZ	242.6	237.4	306.6	294.2	REC(81-84) 59 INCHES SNOW
					10 GHZ	252.3	249.3	311.6	289.3	INC=-.56V
					18 GHZ	231.4	231.5	309.7	295.3	
					37 GHZ	207.5	205.4	311.1	294.5	
37,	2				15					
					5 GHZ	235.7	228.5	306.6	294.2	REC(85) 70 INCHES SNOW (DEPTH HOAR)
					10 GHZ	249.8	246.7	311.6	289.3	INC=-.56 V
					18 GHZ	229.9	229.7	309.7	295.3	
					37 GHZ	196.4	196.9	311.1	294.5	

END OF RUN.

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REC # 1, 2	INCLIN = 130	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	0 GHZ	0.0	0.0	287.8	281.7	5 GHZ NOT WARMED UP YET
DAY = 24	10 GHZ	4.2	6.2	307.7	263.2	SKY CAL INC=2.67V
HR = 10	18 GHZ	13.8	13.6	279.4	268.6	
MIN = 10	37 GHZ	12.1	23.3	293.5	267.0	
REC # 2, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	0 GHZ	0.0	0.0	279.8	285.8	SNOW 23.5 INCHES
DAY = 24	10 GHZ	259.2	248.6	309.5	267.4	INC=.166V
HR = 10	18 GHZ	271.2	264.1	285.8	270.6	
MIN = 30	37 GHZ	212.8	200.8	297.8	270.2	
REC # 3, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	0 GHZ	0.0	0.0	276.7	287.4	SNOW DEPTH VARIES 13 TO 22 INCHES
DAY = 24	10 GHZ	260.9	249.3	310.1	269.0	INC=.162 VOLT
HR = 10	18 GHZ	272.2	264.9	288.3	272.9	
MIN = 40	37 GHZ	224.9	216.6	299.4	271.5	
REC # 4, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	0 GHZ	0.0	0.0	275.4	288.1	DATA FOR 10 & 37 GHZ ONLY
DAY = 24	10 GHZ	259.8	247.3	310.4	269.7	INC=.15V
HR = 10	0 GHZ	0.0	0.0	289.3	273.9	13 TO 16 INCHES SNOW
MIN = 45	37 GHZ	221.0	212.9	300.1	272.0	
REC # 5, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	5 GHZ	250.9	236.5	274.2	288.7	SNOW 18 INCHES
DAY = 24	10 GHZ	260.0	247.5	310.7	270.4	SPOT INC=.15V
HR = 10	18 GHZ	268.6	261.8	290.3	274.8	10 GHZ DATA READ AT 1046
MIN = 50	37 GHZ	213.7	203.2	300.8	272.5	
REC # 6, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	5 GHZ	245.9	239.8	272.2	289.7	SNOW 20 INCHES
DAY = 24	10 GHZ	260.5	260.5	311.1	271.4	SPOT INC=-1.25V
HR = 11	18 GHZ	269.0	266.4	291.9	276.3	
MIN = 0	37 GHZ	215.9	213.4	301.9	273.3	
REC # 7, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	5 GHZ	246.4	229.4	271.5	290.1	SNOW 20 INCHES
DAY = 24	10 GHZ	260.3	251.9	311.3	271.8	SPOT INC=.16V
HR = 11	18 GHZ	268.3	259.0	292.4	276.7	
MIN = 4	37 GHZ	215.9	208.0	302.2	273.6	
REC # 8, 2	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	5 GHZ	45.4	40.1	270.5	290.6	SLIDE AL PLATE UNDER 20 INCHES
DAY = 24	10 GHZ	25.3	28.5	311.5	272.3	UNDISTURBED SNOW
HR = 11	18 GHZ	73.6	44.1	293.2	277.5	NORTH SIDE, DENSITY .23
MIN = 12	37 GHZ	87.1	93.1	302.7	274.0	INC=-.6V
REC # 9, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	5 GHZ	216.0	211.6	269.9	290.9	NATURAL SNOW NEXT TO PLATE
DAY = 24	10 GHZ	236.4	235.6	311.7	272.6	37 INCHES SNOW
HR = 11	18 GHZ	261.5	259.8	293.7	277.9	INC=-1.27V
MIN = 20	37 GHZ	221.1	220.2	303.1	274.2	
REC # 10, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
NOV = 24	5 GHZ	207.5	291.2	269.7	291.0	37 INCHES NATURAL SNOW
DAY = 24	10 GHZ	231.0	337.6	311.7	272.8	INC=.14V
HR = 11	18 GHZ	261.5	344.7	293.9	278.1	
MIN = 26	37 GHZ	224.3	352.6	303.2	274.3	

1978 SMNR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 2/24/78

REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
11	2	24	11	35	20	30.6	30.7	272.2	289.7	PLATE ON SURFACE NO SNOW ON TOP INC=-.55V
					5 GHZ	18.4	18.9	311.1	271.4	
					10 GHZ	72.9	75.4	291.9	276.3	
					37 GHZ	34.7	44.7	301.9	273.3	
12	2	24	11	37	20	45.2	45.5	272.2	289.7	TOP AL REMOVED COMPRESS 20 TO 16 INCHES SNOW INC=-.55V
					5 GHZ	27.8	31.5	311.1	271.4	
					10 GHZ	77.7	81.7	291.9	276.3	
					37 GHZ	77.9	86.0	301.9	273.3	
13	2	24	11	41	15	202.4	293.2	272.2	289.7	UNDESTURBED SNOW NEXT TO THE AL PLATE INC=-.56V APPROXIMATED TIME
					5 GHZ	226.7	337.0	311.1	271.4	
					10 GHZ	237.5	340.8	291.9	276.3	
					37 GHZ	211.8	352.7	301.9	273.3	
14	2	24	11	50	15	207.0	193.8	272.2	289.7	PLATE REMOVED FROM BOTTOM OF PACKED SNOW DENSITY=.31 COMPRESSED SNOW 16 INCHES INC=-.55V
					5 GHZ	230.7	223.6	311.1	271.4	
					10 GHZ	240.7	237.4	291.9	276.3	
					37 GHZ	221.0	217.8	301.9	273.3	
15	2	24	12	25	0	240.1	234.4	272.2	289.7	9 INCHES SNOW BACK TO SHALLOW DEPTH UNDISTURBED INC=-1.25V
					5 GHZ	259.6	259.0	311.1	271.4	
					10 GHZ	280.2	277.0	291.9	276.3	
					37 GHZ	221.6	221.5	301.9	273.3	
16	2	24	12	32	40	244.2	226.9	272.2	289.7	8 INCHES SNOW INC=-.16V
					5 GHZ	260.7	245.1	311.1	271.4	
					10 GHZ	277.8	268.9	291.9	276.3	
					37 GHZ	234.3	231.3	301.9	273.3	
17	2	24	13	15	40	242.2	228.5	272.2	289.7	SNOW REMOVED FROM GROUND LOOKING AT BARE SOIL INC=.17V
					5 GHZ	258.8	248.4	311.1	271.4	
					10 GHZ	280.3	271.0	291.9	276.3	
					37 GHZ	258.4	258.6	301.9	273.3	
18	2	24	13	16	0	232.7	229.7	272.2	289.7	SAME AS ABOVE INC=-1.25V
					5 GHZ	260.1	260.9	311.1	271.4	
					10 GHZ	281.0	277.6	291.9	276.3	
					37 GHZ	253.1	253.6	301.9	273.3	
19	2	24	13	18	0	230.8	229.8	272.2	289.7	SNOW 21.5 INCHES ANOTHER SPOT
					5 GHZ	256.4	258.5	311.1	271.4	
					10 GHZ	242.8	244.3	291.9	276.3	
					37 GHZ	213.1	219.2	301.9	273.3	
20	2	24	13	20	40	238.4	230.0	272.2	289.7	SAME AS ABOVE INC=.17V
					5 GHZ	261.9	260.9	311.1	271.4	
					10 GHZ	242.6	241.9	291.9	276.3	
					37 GHZ	220.2	223.9	301.9	273.3	

END OF RUN.

1978 SNMR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 2/27/78

REC # 1, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PARTLY CLOUDY. LIGHT SNOW FALLING. BOOM AT 30 DEG. FULLY EXTENDED SNOW DEPTH 35 INCHES WITH 6 INCHES NEW POWDER. TEMP=0C. INC= -1.29V
MON = 2	5 GHZ	248.9	250.4	299.8	281.0	
DAY = 27	10 GHZ	253.1	253.8	311.7	280.3	
HR = 14	18 GHZ	267.8	266.5	297.7	281.3	
MIN = 35	37 GHZ	253.3	250.3	304.2	281.2	
REC # 2, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	SAME AS ABOVE. NEAR FRAZIER COLO. PACKAGE MOVED TO 40 DEG. TEMP=0C. INC=.16V
MON = 2	5 GHZ	258.4	233.4	300.0	281.1	
DAY = 27	10 GHZ	258.3	242.8	311.7	280.2	
HR = 14	18 GHZ	283.2	273.7	297.8	281.4	
MIN = 38	37 GHZ	259.1	256.0	304.5	281.2	
REC # 3, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	SAME AS ABOVE INC=.16V 40 DEG
MON = 2	5 GHZ	257.9	230.7	300.9	281.2	
DAY = 27	10 GHZ	258.3	242.3	311.7	280.2	
HR = 14	18 GHZ	285.4	275.5	298.5	281.6	
MIN = 53	37 GHZ	260.2	257.1	305.7	281.1	
REC # 4, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	NO SNOW. LIGHT OVERCAST. NADIR, INC = -1.27
MON = 2	5 GHZ	246.0	248.5	301.0	281.2	
DAY = 27	10 GHZ	253.0	253.7	311.7	280.2	
HR = 14	18 GHZ	285.2	281.6	298.5	281.7	
MIN = 55	37 GHZ	256.1	253.8	305.8	281.1	
REC # 5, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	SOME SNOW FALLING. HEAVY CLOUDS. TEMP=0C. 40 DEG, NADIR, INC=1.25V
MON = 2	5 GHZ	244.5	246.6	301.8	281.5	
DAY = 27	10 GHZ	251.3	251.5	311.7	280.3	
HR = 15	18 GHZ	282.5	280.5	299.2	282.1	
MIN = 10	37 GHZ	247.3	245.2	306.8	281.2	
REC # 6, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	ANT AT 40 DEG. INC = .152 TEMP=0C. OVERCAST, NO SNOW FALLING
MON = 2	5 GHZ	256.8	230.3	302.5	281.9	
DAY = 27	10 GHZ	257.3	242.2	311.7	280.5	
HR = 15	18 GHZ	284.1	275.1	299.8	282.7	
MIN = 26	37 GHZ	255.3	252.6	307.7	281.5	
REC # 7, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	ANT AT NADIR. INC = -1.27V OVERCAST. NO SNOW FALLING.
MON = 2	5 GHZ	243.2	245.2	302.7	282.1	
DAY = 27	10 GHZ	250.9	252.9	311.7	280.6	
HR = 15	18 GHZ	282.6	279.2	300.0	282.8	
MIN = 30	37 GHZ	252.8	252.7	307.9	281.6	
REC # 8, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SUNNY. TEMP=0C. INC= -1.24V
MON = 2	5 GHZ	241.7	243.2	303.1	282.6	
DAY = 27	10 GHZ	251.7	252.8	311.6	281.0	
HR = 15	18 GHZ	282.7	280.0	300.7	283.6	
MIN = 45	37 GHZ	245.2	245.1	308.6	282.1	
REC # 9, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	ANT MOVED TO 40 DEG. SUNNY. TEMP=0C. INC=.15V
MON = 2	5 GHZ	257.3	228.0	303.2	282.7	
DAY = 27	10 GHZ	259.0	244.4	311.6	281.1	
HR = 15	18 GHZ	282.6	274.9	300.7	283.7	
MIN = 47	37 GHZ	257.0	253.7	308.7	282.2	
REC # 10, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	40 DEG INC=.15V TEMP=1C SLIGHT OVERCAST SUNNY TARGET (HAZEY)
MON = 2	5 GHZ	258.0	228.5	303.5	283.3	
DAY = 27	10 GHZ	257.6	244.3	311.5	281.6	
HR = 16	18 GHZ	284.5	276.0	301.3	284.4	
MIN = 0	37 GHZ	257.1	254.1	309.1	282.7	

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REC # 11,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	242.2	244.1	303.5	283.5	
DAY = 27	10 GHZ	251.8	253.4	311.5	281.7	MOVED TO NADIR INC=-1.26V
HR = 16	18 GHZ	281.9	280.4	301.4	284.5	TEMP=1C.
MIN = 2	37 GHZ	253.3	253.4	309.2	282.8	
REC # 12,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	238.3	239.6	303.6	284.8	
DAY = 27	10 GHZ	251.1	251.8	311.2	282.8	SUNNY TARGET
HR = 16	18 GHZ	281.7	279.6	302.1	286.0	INC = -1.26 TEMP=1.0C
MIN = 15	37 GHZ	243.4	238.8	309.5	284.1	
REC # 13,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	256.0	227.1	303.6	284.9	
DAY = 27	10 GHZ	258.1	244.8	311.2	282.9	PARTLY SUNNY TARGET. HAZY SUN.
HR = 16	18 GHZ	280.8	274.0	302.2	286.1	INC =+.15V TEMP= 0.C
MIN = 17	37 GHZ	257.9	254.1	309.5	294.2	
REC # 14,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	256.0	227.8	303.8	285.2	
DAY = 27	10 GHZ	256.8	245.4	311.1	283.1	HAZY SUN. TEMP = 1.0C
HR = 16	18 GHZ	281.3	273.8	302.6	286.5	INC =+.15V
MIN = 30	37 GHZ	258.2	253.0	309.7	284.4	
REC # 15,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	244.9	242.1	303.8	285.2	
DAY = 27	10 GHZ	248.8	250.8	311.1	283.2	TEMP = +0.5C. INC = 1.26V
HR = 16	18 GHZ	279.9	277.5	302.7	286.6	
MIN = 32	37 GHZ	253.3	253.9	309.8	284.4	
REC # 16,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	234.3	236.0	303.9	285.2	
DAY = 27	10 GHZ	249.5	249.3	311.1	283.2	INC = -1.26V TEMP= -0.5C
HR = 16	18 GHZ	280.7	277.5	303.0	286.6	HAZY SUN
MIN = 45	37 GHZ	239.5	236.7	309.9	284.3	
REC # 17,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.3	225.1	303.9	285.2	
DAY = 27	10 GHZ	256.9	245.0	311.2	283.1	HAZE, TEMP= -1.0C, INC= .15V
HR = 16	18 GHZ	278.6	272.0	303.0	286.6	
MIN = 47	37 GHZ	256.1	252.6	309.9	284.3	
REC # 18,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	255.2	226.3	304.0	284.8	
DAY = 27	10 GHZ	256.5	244.3	311.2	282.9	FILTERED SUN, INC =+.15V
HR = 17	18 GHZ	279.3	270.8	303.2	286.4	TEMP = -1.0C
MIN = 0	37 GHZ	254.6	249.5	310.0	283.9	
REC # 19,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	241.3	242.9	304.0	284.8	
DAY = 27	10 GHZ	248.0	248.2	311.2	282.8	FILTERED SUN, VERY LOW INTENSITY.
HR = 17	18 GHZ	279.8	276.1	303.3	286.3	TEMP = -1.0C. INC = -1.27V
MIN = 2	37 GHZ	249.8	251.2	310.0	283.8	
REC # 20,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	232.7	235.2	304.1	282.9	
DAY = 27	10 GHZ	247.5	248.2	311.6	281.3	VERY LOW INTENSITY SUN
HR = 17	18 GHZ	279.9	276.1	303.3	284.5	TEMP = -1.5C
MIN = 15	37 GHZ	231.1	230.1	309.7	281.7	INC=-1.27V

1978 SNHR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 2/27/78

REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 21,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	249.7	221.3	304.1	282.8	VERY INTENSITY SUN
DAY = 27	10 GHZ	256.0	240.9	311.6	281.2	TEMP = -2.0C
HR = 17	18 GHZ	279.4	269.0	303.3	284.4	INC=.15V
MIN = 17	37 GHZ	247.4	240.7	309.7	281.7	
REC # 22,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	253.6	227.8	304.1	282.6	SUN ALMOST SET, VERY LITTLE SHADOW
DAY = 27	10 GHZ	255.0	234.8	311.6	281.1	INC=.15V
HR = 17	18 GHZ	250.5	242.4	303.4	284.3	TEMP = -2.0C
MIN = 30	37 GHZ	239.5	231.1	309.7	281.4	
REC # 23,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	240.0	242.5	304.2	282.6	
DAY = 27	10 GHZ	244.8	245.4	311.6	281.1	
HR = 17	18 GHZ	251.2	275.3	303.4	284.2	
MIN = 32	37 GHZ	223.9	227.1	309.7	281.4	
REC # 24,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	231.7	233.6	304.2	282.6	TEMP=-2.5C, SUNDOWN
DAY = 27	10 GHZ	244.5	245.1	311.6	281.1	INC = -1.26V
HR = 17	18 GHZ	249.4	273.7	303.4	284.2	
MIN = 45	37 GHZ	202.3	201.8	309.7	281.4	
REC # 25,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	245.9	219.8	304.2	282.6	SUNDOWN, TEMP=-3C
DAY = 27	10 GHZ	251.9	231.4	311.6	281.1	
HR = 17	18 GHZ	250.4	241.1	303.4	284.2	
MIN = 47	37 GHZ	227.3	215.8	309.7	281.4	
REC # 26,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	248.6	223.5	304.2	282.6	SUNDOWN, TEMP=-4C
DAY = 27	10 GHZ	250.4	229.0	311.6	281.1	
HR = 18	18 GHZ	249.6	239.8	303.4	284.2	
MIN = 0	37 GHZ	217.5	206.0	309.7	281.4	
REC # 27,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	238.1	240.3	304.2	282.6	SUNDOWN, TEMP=-4C
DAY = 27	10 GHZ	239.3	240.3	311.6	281.1	
HR = 18	18 GHZ	248.2	272.2	303.4	284.2	
MIN = 2	37 GHZ	206.0	208.0	309.7	281.4	

END OF RUN.

1978 SHMR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 2/28/78

REC # 1, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SAME SITE AS 780227 - LOOKING NORTH, BOON AT 30 DEG FULLY EXTENDED - SNOW DEPTH = 39 INCHES NEW SNOW. NO SUN YET. INC=-1.26V
MON = 2	5 GHZ	245.8	247.4	292.4	267.4	
DAY = 28	10 GHZ	294.4	263.6	304.0	266.8	
HR = 8	18 GHZ	266.1	270.9	282.0	265.6	
MIN = 0	37 GHZ	206.7	205.8	291.5	266.4	
REC # 2, 2	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	INC=.15V OVERCAST SKY
MON = 2	5 GHZ	252.1	228.0	292.7	267.4	
DAY = 28	10 GHZ	259.1	233.1	304.2	266.9	
HR = 8	18 GHZ	267.1	255.1	282.2	265.6	
MIN = 2	37 GHZ	212.8	199.6	291.8	266.5	
REC # 3, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	INC=-1.26V, BRIGHT SUN, TEMP=-3C
MON = 2	5 GHZ	246.3	250.0	301.8	275.1	
DAY = 28	10 GHZ	276.7	265.2	312.3	273.4	
HR = 10	18 GHZ	261.2	260.3	292.6	273.2	
MIN = 0	37 GHZ	196.0	194.7	304.9	274.3	
REC # 4, 2	INCLIN = 35	T(V)	T(H)	HOT LD.	ANT.	ANTENNA HANGING FREE AT SLIGHTLY DIFFERENT ANGLE. NOW BRIGHT AND SUNNY. TEMP=-3C, INC=.08V
MON = 2	5 GHZ	251.2	230.7	301.9	275.4	
DAY = 28	10 GHZ	272.6	239.0	312.4	273.6	
HR = 10	18 GHZ	260.9	248.4	292.8	273.5	
MIN = 2	37 GHZ	209.1	195.6	305.1	274.5	
REC # 5, 2	INCLIN = 37	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-4C INC=-.091V
MON = 2	5 GHZ	252.5	231.6	301.4	277.6	
DAY = 28	10 GHZ	260.1	236.6	311.1	275.3	
HR = 10	18 GHZ	263.1	218.7	293.9	278.0	
MIN = 15	37 GHZ	211.9	197.4	306.3	277.3	
REC # 6, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-4C INC=-1.26V
MON = 2	5 GHZ	214.0	247.9	301.4	277.8	
DAY = 28	10 GHZ	273.3	255.4	311.1	275.5	
HR = 10	18 GHZ	274.7	270.1	294.1	278.3	
MIN = 17	37 GHZ	207.3	209.7	306.5	277.5	
REC # 7, 2	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-6C INC=-.12V
MON = 2	5 GHZ	254.3	233.0	302.1	280.0	
DAY = 28	10 GHZ	269.7	244.1	311.1	277.5	
HR = 10	18 GHZ	265.1	221.3	296.0	281.2	
MIN = 35	37 GHZ	210.5	195.5	307.8	279.8	
REC # 8, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-6C INC=-1.26V
MON = 2	5 GHZ	246.4	249.6	302.1	280.2	
DAY = 28	10 GHZ	285.2	273.7	311.1	277.7	
HR = 10	18 GHZ	263.8	263.6	296.2	281.5	
MIN = 37	37 GHZ	204.3	203.7	307.9	280.0	
REC # 9, 2	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-2C INC=-1.26V
MON = 2	5 GHZ	245.9	250.2	302.7	281.2	
DAY = 28	10 GHZ	291.8	269.6	311.1	278.6	
HR = 10	18 GHZ	258.9	257.5	297.1	282.7	
MIN = 45	37 GHZ	190.5	189.9	308.4	281.1	
REC # 10, 2	INCLIN = 37	T(V)	T(H)	HOT LD.	ANT.	BOON SHADOW EVIDENT NEAR X BAND TEMP=4C
MON = 2	5 GHZ	252.0	230.9	302.7	282.1	
DAY = 28	10 GHZ	272.5	240.9	311.1	279.4	
HR = 10	18 GHZ	262.0	220.5	297.9	283.8	
MIN = 52	37 GHZ	209.2	194.5	308.8	281.9	

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REC # 11,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN	TEMP=-4C
MON = 2	5 GHZ	253.9	233.9	302.7	282.1	INC=-.11V	
DAY = 28	10 GHZ	255.9	237.4	311.1	279.4		
HR = 10	18 GHZ	247.3	236.5	297.9	283.8		
MIN = 52	37 GHZ	211.1	198.7	308.8	281.9		
REC # 12,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SNOW SURFACE TEMP=-8C	
MON = 2	5 GHZ	240.7	244.1	303.3	284.0	SUN NOW BEHIND CLOUD, TEMP=-5C	
DAY = 28	10 GHZ	293.0	265.1	311.2	281.2	NO BRIGHT SUN, INC=1.26V	
HR = 11	18 GHZ	246.5	271.2	299.6	286.0		
MIN = 7	37 GHZ	191.7	189.6	309.6	283.8		
REC # 13,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN	TEMP=-2C
MON = 2	5 GHZ	245.5	249.3	303.8	285.8	INC=-1.26V	
DAY = 28	10 GHZ	279.7	269.5	311.2	282.9		
HR = 11	18 GHZ	247.2	270.0	301.1	287.8		
MIN = 20	37 GHZ	190.8	188.5	310.2	285.5		
REC # 14,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	HAZY SUN	INC=.16V
MON = 2	5 GHZ	254.0	234.7	303.9	286.0		
DAY = 28	10 GHZ	269.7	244.2	311.2	283.1		
HR = 11	18 GHZ	246.2	236.2	301.4	288.1		
MIN = 22	37 GHZ	213.3	200.9	310.3	285.7		
REC # 15,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	FILTERED SUN	INC=.16V
MON = 2	5 GHZ	248.6	232.4	304.4	287.8	TEMP=-1C,	
DAY = 28	10 GHZ	270.6	240.5	311.3	284.8		
HR = 11	18 GHZ	245.8	233.4	303.0	289.8		
MIN = 35	37 GHZ	214.2	201.1	310.8	287.4		
REC # 16,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=-.5C, INC=-1.26V	
MON = 2	5 GHZ	246.0	249.5	304.5	288.1	FILTERED TO BRIGHT SUN	
DAY = 28	10 GHZ	286.5	275.7	311.3	285.1		
HR = 11	18 GHZ	245.8	269.4	303.3	290.1		
MIN = 37	37 GHZ	201.9	202.7	310.8	287.6		
REC # 17,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN AND SHADOW, HAZY SUN	
MON = 2	5 GHZ	244.0	247.4	305.3	290.4	TEMP=0C, INC=-1.26V	
DAY = 28	10 GHZ	280.0	265.5	311.5	287.5		
HR = 11	18 GHZ	245.2	268.4	306.0	292.0		
MIN = 50	37 GHZ	186.4	186.9	311.1	289.6		
REC # 18,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	FILTERED SUN.	
MON = 2	5 GHZ	253.7	233.8	305.4	290.6	TEMP=-5C, INC=.14V	
DAY = 28	10 GHZ	266.4	237.3	311.5	287.7		
HR = 11	18 GHZ	243.9	234.2	306.3	292.3		
MIN = 52	37 GHZ	214.3	201.6	311.1	289.8		
REC # 19,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	MODERATELY BRIGHT SUN.	
MON = 2	5 GHZ	254.4	233.9	305.9	292.3	TEMP=0C, INC=.15V	
DAY = 28	10 GHZ	273.4	240.9	311.5	289.3		
HR = 12	18 GHZ	244.7	234.3	307.5	293.7		
MIN = 5	37 GHZ	217.5	206.4	311.4	291.3		
REC # 20,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	MODERATE SUN.	
MON = 2	5 GHZ	245.1	248.5	305.9	292.5	TEMP=-4C, INC=-1.26V	
DAY = 28	10 GHZ	280.9	264.5	311.6	289.5		
HR = 12	18 GHZ	238.8	240.4	307.7	293.9		
MIN = 7	37 GHZ	203.2	203.0	311.5	291.5		

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REC # 21,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	240.5	244.0	306.4	294.0	MODERATELY BRIGHT SUN.
DAY = 28	10 GHZ	284.1	259.1	311.6	291.0	INC = -1.25V
HR = 12	18 GHZ	234.4	236.0	308.7	295.2	
MIN = 20	37 GHZ	186.6	186.2	311.7	292.9	
REC # 22,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	253.0	232.8	306.4	294.2	HAZY MODERATE SUN.
DAY = 28	10 GHZ	257.4	238.0	311.6	291.2	TEMP=-4C, INC=.17V
HR = 12	18 GHZ	234.7	227.3	308.9	295.4	
MIN = 22	37 GHZ	219.3	208.0	311.8	293.1	
REC # 23,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	253.9	234.1	306.8	295.5	BRIGHT SUN INC=.17V
DAY = 28	10 GHZ	256.9	237.0	311.7	292.5	TEMP=-3.5C
HR = 12	18 GHZ	236.7	227.3	309.6	296.6	
MIN = 35	37 GHZ	221.3	208.8	311.9	294.4	
REC # 24,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	245.2	248.1	306.9	295.7	TEMP=-3.5C, INC=.17V
DAY = 28	10 GHZ	271.0	255.8	311.7	292.7	
HR = 12	18 GHZ	235.3	236.7	309.7	296.7	
MIN = 37	37 GHZ	206.0	208.1	312.0	294.6	
REC # 25,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	234.6	239.1	307.2	297.0	
DAY = 28	10 GHZ	263.4	264.3	311.7	293.8	
HR = 12	18 GHZ	238.0	238.0	310.2	297.7	
MIN = 50	37 GHZ	190.1	190.8	312.1	295.7	
REC # 26,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	249.9	228.8	307.2	297.2	BRIGHT SUN TEMP=-2C
DAY = 28	10 GHZ	258.2	241.5	311.7	294.0	INC=.19V
HR = 12	18 GHZ	238.2	228.0	310.2	297.8	
MIN = 52	37 GHZ	228.4	217.3	312.1	295.9	
REC # 27,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	252.8	232.6	307.6	298.5	BRIGHT SUN, TEMP=-1C, INC=-.19V
DAY = 28	10 GHZ	257.1	238.5	311.6	295.2	SURFACE MELT STARTS AT 1300 TRACE-
HR = 13	18 GHZ	239.7	228.8	309.8	299.7	RAY JONES
MIN = 5	37 GHZ	234.3	226.2	312.0	297.1	
REC # 28,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	246.1	249.3	307.6	298.6	BRIGHT SUN, TEMP=-2C, INC=-1.26V
DAY = 28	10 GHZ	271.6	261.0	311.6	295.4	
HR = 13	18 GHZ	237.8	239.5	309.8	299.8	
MIN = 7	37 GHZ	225.8	227.5	312.0	297.3	
REC # 29,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	232.1	236.8	307.8	299.5	BRIGHT SUN, TEMP=-3C, INC=-1.27V
DAY = 28	10 GHZ	284.1	268.1	311.6	296.2	
HR = 13	18 GHZ	238.3	237.9	310.1	299.9	
MIN = 20	37 GHZ	202.2	202.6	312.1	298.2	
REC # 30,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	247.1	224.7	307.8	299.6	BRIGHT SUN
DAY = 28	10 GHZ	255.3	234.8	311.6	296.3	SURFACE MELT APPROACHING 2 %
HR = 13	18 GHZ	235.2	230.2	310.1	299.9	TEMP=-3.5C, INC=.19V
MIN = 22	37 GHZ	238.7	232.0	312.1	298.3	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	Notes
31	2	28	13	35	40	250.2	228.4	308.0	300.3	BRIGHT SUN, INC=.19V
					5 GHZ	253.7	236.4	311.6	297.0	
					10 GHZ	237.4	229.6	310.3	299.6	
					18 GHZ	239.7	233.8	312.1	299.0	
32	2	28	13	37	0	245.4	247.5	308.0	300.4	BRIGHT SUN, TEMP=-3C
					5 GHZ	278.9	266.6	311.6	297.0	
					10 GHZ	237.7	238.0	310.3	299.5	
					18 GHZ	230.4	232.3	312.1	299.1	
33	2	28	13	50	0	231.4	233.9	308.1	301.0	BRIGHT SUN
					5 GHZ	270.9	266.8	311.6	297.5	TEMP=-3C
					10 GHZ	237.0	239.1	310.4	298.6	
					18 GHZ	208.0	207.6	312.2	299.7	
34	2	29	13	52	40	244.7	221.4	308.1	301.0	INC=.19V, TEMP=-3C
					5 GHZ	264.4	236.7	311.6	297.5	
					10 GHZ	235.7	230.5	310.4	298.4	
					18 GHZ	235.8	229.1	312.2	299.8	
35	2	28	14	5	40	245.5	222.3	308.1	301.4	INC=.19V, TEMP=-2C
					5 GHZ	265.8	239.1	311.6	297.8	
					10 GHZ	236.5	229.5	310.4	297.0	
					18 GHZ	236.4	230.4	312.2	300.3	
36	2	28	14	7	0	238.3	241.1	307.9	301.3	INC=-1.26V
					5 GHZ	268.0	277.7	311.6	297.6	
					10 GHZ	237.2	236.9	310.2	293.6	
					18 GHZ	230.7	231.5	312.1	300.3	
37	2	28	14	30	0	248.2	249.7	307.9	301.5	NEW NITROGEN ADDED. HAZY SUN.
					5 GHZ	288.7	279.7	311.6	297.7	RAY JONES FOUND NO SURFACE MELT AT
					10 GHZ	233.3	234.5	310.2	291.6	1400. TEMP=-2C, INC=-1.2V
					18 GHZ	222.1	225.5	312.1	300.7	
38	2	28	14	32	40	254.9	235.1	307.9	301.5	BRIGHT SUN
					5 GHZ	276.2	237.3	311.6	297.7	TEMP=-1.5C
					10 GHZ	234.5	226.1	310.2	291.5	
					18 GHZ	231.5	222.4	312.1	300.8	
39	2	28	14	45	40	254.6	244.3	307.9	301.5	BRIGHT SUN, TEMP=-3C
					5 GHZ	277.1	235.3	311.6	297.6	
					10 GHZ	232.6	224.4	310.2	291.0	
					18 GHZ	232.6	225.0	312.1	300.8	
40	2	28	14	47	0	247.8	249.2	307.9	301.4	TEMP=-3C, INC=-1.27V
					5 GHZ	289.5	289.8	311.6	297.5	BRIGHT SUN
					10 GHZ	233.5	234.8	310.2	291.0	
					18 GHZ	226.4	229.7	312.1	300.8	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 41,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	248.4	249.6	307.9	301.2	
DAY = 28	10 GHZ	289.7	276.6	311.6	297.3	SUN NOT SO BRIGHT. SOME FILTERING
HR = 15	18 GHZ	232.7	234.6	310.3	291.0	BY CLOUDS AND LOW ANGLE.
MIN = 0	37 GHZ	214.0	218.2	312.1	300.6	INC = -1.27V
REC # 42,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.9	234.8	307.9	301.2	
DAY = 28	10 GHZ	261.2	233.2	311.6	297.3	SUN SAME AS IN REC 41.
HR = 15	18 GHZ	233.9	227.3	310.3	291.1	INC = .19V
MIN = 2	37 GHZ	230.1	221.0	312.1	300.6	
REC # 43,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.9	235.1	307.9	300.8	
DAY = 28	10 GHZ	261.3	230.4	311.6	297.0	SUN SAME AS IN REC 41.
HR = 15	18 GHZ	233.3	226.6	310.3	291.6	TEMP=-4C, INC=.19V
MIN = 15	37 GHZ	228.9	219.4	312.1	300.3	SURFACE TEMP IS 1C - BY RAY JONES
REC # 44,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	248.2	250.0	307.9	300.7	
DAY = 28	10 GHZ	290.8	273.6	311.6	296.9	BRIGHT SUN, INC=-1.26V
HR = 15	18 GHZ	236.1	234.8	310.3	291.7	
MIN = 17	37 GHZ	220.7	222.6	312.1	300.2	
REC # 45,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	248.3	249.9	308.1	300.1	
DAY = 28	10 GHZ	277.1	264.1	314.1	296.4	SOME HAZE, FILTERED SUN,
HR = 15	18 GHZ	234.4	234.4	310.8	296.8	INC=-1.25V
MIN = 30	37 GHZ	210.2	212.8	312.3	297.4	
REC # 46,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	255.2	234.8	308.1	300.0	
DAY = 28	10 GHZ	275.4	234.0	314.0	296.4	SUN SAME AS REC 45.
HR = 15	18 GHZ	234.5	226.1	310.8	296.9	TEMP=-5C, INC=.2V
MIN = 32	37 GHZ	227.9	219.2	312.3	297.3	
REC # 47,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	255.3	235.5	308.0	299.3	
DAY = 28	10 GHZ	264.9	231.7	313.4	295.8	SUN EASING INTENSITY NOW
HR = 15	18 GHZ	233.3	226.1	310.8	297.5	TEMP=-1C, INC=.2V
MIN = 45	37 GHZ	227.5	218.0	312.2	297.3	
REC # 48,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	247.7	250.0	308.0	299.2	
DAY = 28	10 GHZ	271.8	263.9	313.3	295.7	SUN EASING INTENSITY NOW
HR = 15	18 GHZ	234.9	237.2	310.8	297.6	INC=-1.26V
MIN = 47	37 GHZ	222.3	228.0	312.2	297.3	
REC # 49,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	247.3	249.9	308.0	298.5	
DAY = 28	10 GHZ	291.2	258.6	312.2	295.0	SUN HAZY LONG SHADOWS
HR = 16	18 GHZ	234.1	235.8	310.7	297.8	TEMP=-3C, INC=-1.26V
MIN = 0	37 GHZ	205.9	206.3	312.1	297.6	
REC # 50,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	255.5	235.1	307.9	298.3	
DAY = 28	10 GHZ	263.2	230.2	312.0	294.9	INC=.23V
HR = 16	18 GHZ	236.6	227.9	310.7	297.8	
MIN = 2	37 GHZ	224.3	215.4	312.1	297.7	

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REC # 51,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.9	235.1	307.8	297.4	LOW SUN, TEMP=-5.5C
DAY = 28	10 GHZ	256.1	228.5	310.3	294.1	INC=.22V
HR = 16	18 GHZ	236.3	227.7	310.5	297.7	
MIN = 15	37 GHZ	225.3	216.6	312.0	298.4	
REC # 52,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	247.0	249.9	307.8	297.3	LOW SUN
DAY = 28	10 GHZ	273.9	257.0	310.0	294.0	TEMP=-5.5C, INC=-1.26V
HR = 16	18 GHZ	233.7	233.1	310.5	297.7	
MIN = 17	37 GHZ	215.1	214.7	312.0	298.5	
REC # 53,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	246.3	248.4	307.7	296.3	SUN LOW
DAY = 28	10 GHZ	276.4	259.3	307.8	293.1	TEMP=-5C, INC = -1.27V
HR = 16	18 GHZ	233.4	233.9	310.2	297.1	
MIN = 30	37 GHZ	196.4	195.8	311.9	299.6	
REC # 54,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	253.0	233.5	307.7	296.1	LOW SUN, TEMP=-5C
DAY = 28	10 GHZ	251.0	227.1	307.4	293.0	INC=.22V
HR = 16	18 GHZ	235.6	226.0	310.2	297.0	
MIN = 32	37 GHZ	224.0	212.2	311.8	299.8	
REC # 55,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.1	234.6	307.5	295.0	LOW SUN
DAY = 28	10 GHZ	248.3	226.1	304.7	291.9	INC=-5C, INC=.22V
HR = 16	18 GHZ	235.5	228.1	309.9	296.2	
MIN = 45	37 GHZ	222.4	210.9	311.7	301.2	
REC # 56,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	247.6	250.7	307.5	294.8	LOW SUN
DAY = 28	10 GHZ	256.3	254.0	304.2	291.8	INC=-1.26V
HR = 16	18 GHZ	233.7	233.7	309.8	296.0	
MIN = 47	37 GHZ	220.6	220.1	311.6	301.5	
REC # 57,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	243.2	246.9	306.8	291.1	LOW SUN
DAY = 28	10 GHZ	243.8	247.4	293.3	288.4	TEMP=-6C, INC=-1.26V
HR = 17	18 GHZ	238.9	240.6	308.4	291.1	
MIN = 0	37 GHZ	193.2	187.5	310.9	307.8	
REC # 58,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	251.4	232.0	306.8	291.0	LOW SUN, TEMP=-6.5C
DAY = 28	10 GHZ	240.6	219.7	292.9	288.2	INC=.22V
HR = 17	18 GHZ	233.7	226.5	308.3	290.9	
MIN = 2	37 GHZ	219.8	202.9	310.9	308.0	
REC # 59,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	255.2	236.1	306.7	290.2	LOW SUN
DAY = 28	10 GHZ	240.3	220.1	291.0	287.6	TEMP=-9C, INC=.23V
HR = 17	18 GHZ	236.1	226.5	308.1	290.2	
MIN = 15	37 GHZ	218.8	202.2	310.8	309.0	
REC # 60,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	247.9	251.4	306.7	290.1	LOW SUN
DAY = 28	10 GHZ	258.2	254.6	290.8	287.5	TEMP=-9C, INC=-1.27V
HR = 17	18 GHZ	231.8	233.6	308.1	290.1	
MIN = 17	37 GHZ	211.4	208.1	310.7	309.2	

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REC # 61,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	241.4	245.7	306.6	289.8	LOW SUN ALMOST SET
DAY = 28	10 GHZ	252.6	242.3	289.9	287.2	TEMP=-10C, INC=-1.26V
HR = 17	18 GHZ	234.6	236.1	307.9	289.8	
MIN = 30	37 GHZ	186.2	178.6	310.7	309.7	
REC # 62,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	250.6	230.7	306.6	289.8	SUN GOING DOWN
DAY = 28	10 GHZ	234.0	217.1	289.8	287.1	TEMP=-10C, INC=.23V
HR = 17	18 GHZ	235.0	223.7	307.9	289.7	
MIN = 32	37 GHZ	214.8	195.2	310.7	309.7	
REC # 63,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	254.7	235.9	306.6	289.7	SUN BEHIND MOUNTAIN
DAY = 28	10 GHZ	234.3	217.6	289.7	287.1	TEMP=-11C, INC=.23V
HR = 17	18 GHZ	238.4	229.0	307.9	289.7	
MIN = 45	37 GHZ	213.7	193.0	310.7	309.7	
REC # 64,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	246.8	250.2	306.6	289.7	SUN HAS SET, TEMP=-11C
DAY = 28	10 GHZ	259.8	250.4	289.7	287.1	INC=-1.27V
HR = 17	18 GHZ	238.2	239.4	307.9	289.7	
MIN = 47	37 GHZ	207.3	200.8	310.7	309.7	
REC # 65,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	237.0	241.0	306.6	289.7	SUN HAS SET, TEMP=-12C
DAY = 28	10 GHZ	220.4	222.0	289.7	287.1	INC=-1.27V
HR = 18	18 GHZ	238.5	240.7	307.9	289.7	
MIN = 0	37 GHZ	173.1	162.9	310.7	309.7	
REC # 66,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 2	5 GHZ	249.8	229.9	306.6	289.7	INC=-.18V
DAY = 28	10 GHZ	229.6	205.3	289.7	287.1	
HR = 18	18 GHZ	239.5	232.2	307.9	289.7	
MIN = 2	37 GHZ	210.5	188.4	310.7	309.7	

END OF RUN.

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REC # 1,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SNOW FALLING. HEAVY OVERCAST. APPROX 1 MM SNOW AT END OF CAL. TEMP=-5C, INC=-1.26V, BOON 20 DEG 2 4X8, 10 FT HIGH. SPOT SCAN.
MON = 3	5 GHZ	61.8	72.2	298.6	271.6	
DAY = 1	10 GHZ	114.4	121.2	311.1	270.9	
HR = 10	18 GHZ	120.9	116.8	289.7	273.9	
MIN = 50	37 GHZ	24.9	39.7	299.5	271.9	
REC # 2,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	SNOW MELTING ON PLATE SOME SNOW - STICKING TO PLATE TEMP=-2C, INC=-.55V
MON = 3	5 GHZ	30.6	20.3	299.4	272.2	
DAY = 1	10 GHZ	15.4	17.1	311.0	271.6	
HR = 11	18 GHZ	31.1	31.1	290.5	274.8	
MIN = 10	37 GHZ	22.4	29.4	301.0	272.5	
REC # 3,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	FREE HANG. SNOW BUILDING SLOWLY, PLATE STILL NOT COVERED, SOME MELT. SLANT HEIGHT= 8 FT. TEMP=-3C, INC=-.24V
MON = 3	5 GHZ	11.9	11.6	300.0	272.9	
DAY = 1	10 GHZ	20.4	18.2	311.0	272.3	
HR = 11	18 GHZ	45.4	39.2	291.3	275.8	
MIN = 26	37 GHZ	65.3	50.9	302.2	273.2	
REC # 4,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SNOW IS STILL 39 IN. DEEP. BACK TO DIURNAL MEASUREMENTS. SNOW FALLING, SKY CLOUDY. NASA2 -1 INC=-1.25V, SAME AS 2/27 & 2/28.
MON = 3	5 GHZ	240.2	244.8	303.4	281.4	
DAY = 1	10 GHZ	262.8	265.0	311.1	280.1	
HR = 13	18 GHZ	263.6	267.8	299.1	284.2	
MIN = 0	37 GHZ	193.4	190.5	307.9	281.1	
REC # 5,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	SKY PT CLOUDY, SNOW FALLING. HANGING FREE TEMP=3C, INC=.3V
MON = 3	5 GHZ	250.2	234.3	303.6	282.3	
DAY = 1	10 GHZ	260.6	235.4	311.2	280.9	
HR = 13	18 GHZ	268.8	252.8	299.9	285.1	
MIN = 7	37 GHZ	216.2	204.9	308.3	281.9	
REC # 6,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	INC=.30V
MON = 3	5 GHZ	251.3	234.6	304.4	285.6	
DAY = 1	10 GHZ	255.5	242.3	311.4	283.7	
HR = 13	18 GHZ	263.1	249.6	302.6	288.0	
MIN = 30	37 GHZ	214.4	201.8	309.4	284.9	
REC # 7,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	OVERCAST SKY, FILTERED SUN. TEMP=3.5C, INC=-1.26V
MON = 3	5 GHZ	244.2	247.8	304.8	288.1	
DAY = 1	10 GHZ	253.3	252.1	311.5	285.9	
HR = 13	18 GHZ	263.8	269.0	304.6	291.2	
MIN = 38	37 GHZ	205.5	205.4	310.0	287.3	
REC # 8,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	FILTERED SUN, TEMP=2.5C INC=-1.26V
MON = 3	5 GHZ	234.3	238.7	305.4	290.4	
DAY = 1	10 GHZ	250.9	248.8	311.6	288.0	
HR = 14	18 GHZ	260.4	267.0	306.6	292.4	
MIN = 0	37 GHZ	179.1	175.8	310.7	289.5	
REC # 9,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	OVERCAST SKY, FILTERED SUN. FREE HANG
MON = 3	5 GHZ	251.2	232.0	305.5	290.9	
DAY = 1	10 GHZ	254.5	234.2	311.7	288.4	
HR = 14	18 GHZ	262.7	247.7	307.1	292.3	
MIN = 7	37 GHZ	210.1	197.9	310.8	290.0	
REC # 10,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN, SOME SNOW FALLING. INC=.30V
MON = 3	5 GHZ	253.7	234.6	305.8	291.8	
DAY = 1	10 GHZ	255.2	236.4	311.7	289.1	
HR = 14	18 GHZ	266.9	253.7	308.1	290.7	
MIN = 30	37 GHZ	227.8	219.7	311.0	290.7	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	Notes
11	3	1	14	37	0	241.8	245.2	305.7	291.1	SNOW ENDED, BRIGHT SUN. TEMP=4.5C, INC=-1.25V
					5 GHZ	268.9	257.7	311.7	288.4	
					10 GHZ	266.4	271.7	307.7	286.6	
					37 GHZ	227.2	227.3	310.7	290.0	
12	3	1	15	0	0	220.7	225.3	305.8	291.1	SNOW ENDED, SAME AS ABOVE. SKY PARTLY SUNNY TEMP=4.5C
					5 GHZ	268.8	259.2	311.6	288.4	
					10 GHZ	256.4	260.6	307.9	285.2	
					37 GHZ	210.4	208.1	310.7	290.0	
13	3	1	15	6	45	231.7	208.8	305.8	291.1	LIGHT SNOW FALLING, TEMP=4C CLOUDS HEAVY. INC=.3V FREE HANG
					5 GHZ	254.6	238.0	311.6	288.4	
					10 GHZ	257.0	252.2	307.9	285.1	
					37 GHZ	238.2	228.6	310.6	289.9	
14	3	1	15	30	45	256.4	238.3	305.8	290.6	HEAVY CLOUDS, LIGHT SNOW FALLING. TEMP=3C, INC=.3V
					5 GHZ	252.9	239.6	311.4	288.2	
					10 GHZ	255.9	249.9	307.6	285.8	
					37 GHZ	255.4	248.1	310.5	289.3	
15	3	1	15	42	0	245.9	248.4	305.8	289.7	HEAVY CLOUDS, LIGHT SNOW TEMP=1C, INC=-1.26V
					5 GHZ	264.7	255.3	311.2	287.8	
					10 GHZ	256.4	263.5	306.8	288.8	
					37 GHZ	251.4	252.8	310.3	288.4	
16	3	1	16	0	0	245.7	247.7	305.8	289.5	SUN GOING TO HEAVY SHADOW TEMP=1.5C, INC=-1.26V
					5 GHZ	259.0	256.6	311.1	287.7	
					10 GHZ	256.7	261.7	306.6	289.3	
					37 GHZ	245.5	246.1	310.2	288.2	
17	3	1	16	10	45	256.2	237.6	305.8	289.5	FREE HANG, SNOWING HARD. SUN NOT OUT OF HEAVY SHADOW TEMP=1.5C, INC=.3V
					5 GHZ	255.7	241.8	311.1	287.7	
					10 GHZ	262.4	259.5	306.6	289.3	
					37 GHZ	254.1	251.3	310.2	288.2	
18	3	1	16	30	45	255.7	237.2	305.8	289.5	LIGHT SNOW, HEAVY CLOUDS FREE HANG, TEMP=1.5C INC=.30V
					5 GHZ	255.7	240.9	311.1	287.7	
					10 GHZ	271.8	269.1	306.6	289.3	
					37 GHZ	254.0	252.2	310.2	288.2	
19	3	1	16	40	0	244.4	246.7	305.8	289.5	LIGHT SNOW, HEAVY CLOUDS, NO SUN TEMP=1C, INC=-1.26V
					5 GHZ	260.6	253.5	311.1	287.7	
					10 GHZ	270.9	276.9	306.6	289.3	
					37 GHZ	251.7	253.2	310.2	288.2	

END OF RUN.

1978 SNHR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 3/ 2/78

REC # 1,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	61.4	60.5	282.8	272.7	
DAY = 2	10 GHZ	159.8	161.0	272.8	272.6	
HR = 9	18 GHZ	217.8	213.6	280.9	266.0	
MIN = 20	37 GHZ	183.4	188.7	284.8	272.8	2 4X8 METAL PLATES. 0.75 INCHES OF SNOW ACCUMULATED SINCE YESTERDAY. ANT OVER PLATE CENTERED ON 5 GHZ. TEMP=1.5C, INC=-1.26V
REC # 2,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	93.7	68.0	285.1	273.1	
DAY = 2	10 GHZ	193.6	192.7	295.2	273.0	
HR = 9	18 GHZ	218.0	221.6	282.1	266.2	
MIN = 26	37 GHZ	196.2	196.0	286.9	273.2	CENTERED ON 18-37 GHZ ABOVE PLATE TEMP=1.5C INC=-1.26V DATA RECORDED ON TAPE NAS2 (FILE 2)
REC # 3,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	85.5	119.0	288.6	273.6	
DAY = 2	10 GHZ	165.3	163.1	300.6	273.5	
HR = 9	18 GHZ	249.2	250.0	284.0	266.6	
MIN = 36	37 GHZ	221.9	219.2	290.2	273.8	CENTERED ON X BAND SPOT (10 GHZ) TEMP=2C, INC=-1.26V
REC # 4,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	41.2	33.5	295.9	275.0	
DAY = 2	10 GHZ	87.2	81.1	311.1	274.6	
HR = 10	18 GHZ	180.2	173.3	288.0	267.8	
MIN = 0	37 GHZ	175.8	177.2	297.0	275.2	C BAND CENTERED ON PLATES STILL UNDER .75 INS. SNOW TEMP=1C INC=-.55V SPOT (5 GHZ)
REC # 5,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	80.9	49.2	297.4	275.4	
DAY = 2	10 GHZ	247.1	246.3	313.3	274.8	
HR = 10	18 GHZ	175.7	168.5	288.8	268.1	
MIN = 6	37 GHZ	183.6	180.1	298.5	275.5	SNOW STILL .75 IN DEEP ON PLATES. TEMP=1C, INC=.55V SPOT (18-37 GHZ)
REC # 6,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	51.8	52.6	298.8	275.8	
DAY = 2	10 GHZ	110.0	101.3	315.3	275.0	
HR = 10	18 GHZ	151.7	146.3	289.6	268.4	
MIN = 12	37 GHZ	225.4	218.7	299.9	275.9	SNOW STILL .75 IN DEEP ON PLATES TEMP=2.5C INC=.54V SPOT (10 GHZ)
REC # 7,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	35.8	31.4	299.9	276.1	
DAY = 2	10 GHZ	116.2	83.1	316.8	275.1	
HR = 10	18 GHZ	203.8	180.8	290.2	268.7	
MIN = 17	37 GHZ	195.7	183.8	301.0	276.1	SNOW STILL .75 IN DEEP TEMP=2C INC=.29V SPOT (5 GHZ)
REC # 8,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	54.2	29.0	301.6	276.6	
DAY = 2	10 GHZ	249.9	239.3	318.9	275.3	
HR = 10	18 GHZ	188.7	163.1	291.0	269.1	
MIN = 25	37 GHZ	203.4	193.6	302.6	276.6	SNOW STILL .75 IN DEEP TEMP=1.5C INC=-.28V SPOT (18-37 GHZ)
REC # 9,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	56.4	42.5	301.6	282.5	
DAY = 2	10 GHZ	132.9	94.2	310.6	269.8	
HR = 11	18 GHZ	186.2	164.1	287.6	272.9	
MIN = 22	37 GHZ	214.1	200.6	305.2	281.0	SNOW STILL .75 IN DEEP TEMP=1C INC=.27V SPOT (10 GHZ) THE TIME 1122 IS AN ESTIMATE
REC # 10,	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	2.7	2.4	303.4	285.2	
DAY = 2	10 GHZ	0.9	1.1	310.7	272.2	
HR = 12	18 GHZ	-2.1	2.3	291.1	281.0	
MIN = 20	37 GHZ	20.6	30.6	307.9	283.3	SKY OVERCAST LIGHT SNOW TEMP=0C, INC=2.62V

1978 SNR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 3/ 2/78

REC # 11,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	LOOKING AT SAME SPOT AS ON 27,28,18 2. SNOW DEPTH = 38 INCHES. TEMP=0C, INC=-1.2V
MON = 3	5 GHZ	245.9	249.9	303.5	285.6	
DAY = 2	10 GHZ	309.4	308.6	310.8	274.1	
HR = 12	18 GHZ	280.9	285.9	293.1	282.3	
MIN = 40	37 GHZ	249.9	251.6	308.3	283.8	
REC # 12,	INCLIN = 5	T(V)	T(H)	HOT LD.	ANT.	SNOW FALLING OVERCAST SKY INC=-.98V
MON = 3	5 GHZ	244.1	245.9	303.5	285.7	
DAY = 2	10 GHZ	310.7	331.5	310.8	275.3	
HR = 12	18 GHZ	274.6	278.1	294.3	282.9	
MIN = 50	37 GHZ	244.6	241.3	308.4	283.9	
REC # 13,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	TEMP=-1C, INC=-.8V
MON = 3	5 GHZ	242.3	245.3	303.5	285.7	
DAY = 2	10 GHZ	310.6	305.1	310.8	275.9	
HR = 12	18 GHZ	275.5	281.4	294.7	283.1	
MIN = 54	37 GHZ	247.2	246.8	308.4	283.9	
REC # 14,	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	TEMP=.5C, INC=-.62V
MON = 3	5 GHZ	241.6	245.6	303.0	285.4	
DAY = 2	10 GHZ	327.1	308.5	311.1	279.6	
HR = 13	18 GHZ	273.8	276.4	298.1	283.9	
MIN = 9	37 GHZ	244.9	241.6	307.9	283.8	
REC # 15,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=0C, INC=-.47V
MON = 3	5 GHZ	243.7	244.0	303.0	285.5	
DAY = 2	10 GHZ	322.6	316.2	311.1	280.7	
HR = 13	18 GHZ	275.2	275.8	299.0	284.4	
MIN = 20	37 GHZ	246.0	243.6	307.9	283.9	
REC # 16,	INCLIN = 25	T(V)	T(H)	HOT LD.	ANT.	TEMP=.5C, INC=-.27V
MON = 3	5 GHZ	102.1	243.0	303.0	285.6	
DAY = 2	10 GHZ	314.2	291.3	311.2	281.7	
HR = 13	18 GHZ	98.0	273.4	299.9	284.9	
MIN = 32	37 GHZ	250.3	260.3	307.9	284.1	
REC # 17,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	TEMP=2.5C
MON = 3	5 GHZ	248.3	241.0	303.0	285.6	
DAY = 2	10 GHZ	304.4	273.9	311.2	282.3	
HR = 13	18 GHZ	275.0	271.2	300.3	285.2	
MIN = 40	37 GHZ	248.7	244.2	308.0	284.2	
REC # 18,	INCLIN = 35	T(V)	T(H)	HOT LD.	ANT.	TEMP=3C, INC=.1V
MON = 3	5 GHZ	248.2	238.4	303.0	285.7	
DAY = 2	10 GHZ	287.3	259.4	311.2	282.8	
HR = 13	18 GHZ	273.9	270.8	300.7	285.5	
MIN = 50	37 GHZ	248.6	243.0	308.0	284.3	
REC # 19,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	TEMP=3C INC=.28V FREE HANGING
MON = 3	5 GHZ	251.7	234.9	303.1	285.8	
DAY = 2	10 GHZ	280.6	259.0	311.2	283.1	
HR = 13	18 GHZ	275.6	266.3	300.8	285.7	
MIN = 57	37 GHZ	248.9	242.8	308.1	284.4	
REC # 20,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	TEMP=-.5C, INC=.46V
MON = 3	5 GHZ	257.4	231.8	303.2	286.0	
DAY = 2	10 GHZ	277.4	242.6	311.1	283.0	
HR = 14	18 GHZ	274.0	264.9	300.3	296.1	
MIN = 10	37 GHZ	249.1	242.5	308.3	284.6	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 21,	INCLIN = 50					
MON = 3	5 GHZ	258.4	226.0	303.3	286.1	TEMP=0C, INC=.65V
DAY = 2	10 GHZ	275.2	236.7	311.1	283.2	
HR = 14	18 GHZ	272.6	257.6	300.4	286.3	
MIN = 20	37 GHZ	247.0	237.0	308.3	284.7	
REC # 22,	INCLIN = 55					
MON = 3	5 GHZ	267.3	224.3	303.4	286.2	TEMP=1C, INC=.85V
DAY = 2	10 GHZ	270.7	234.8	311.2	283.6	
HR = 14	18 GHZ	272.3	252.6	300.5	286.6	
MIN = 35	37 GHZ	246.2	236.2	308.4	284.8	
REC # 23,	INCLIN = 60					
MON = 3	5 GHZ	260.9	225.0	303.5	286.2	FILE 3, REC #1 RENUMBERED REC #23.
DAY = 2	10 GHZ	282.4	236.3	311.2	283.8	SNOW STILL FALLING BUT LIGHTLY
HR = 14	18 GHZ	268.2	246.0	300.5	286.7	TEMP=1C, INC=1.03V
MIN = 42	37 GHZ	244.7	230.0	308.4	284.9	
REC # 24,	INCLIN = 65					
MON = 3	5 GHZ	257.2	223.4	303.8	286.3	APPROXIMATE TIME FILE 3
DAY = 2	10 GHZ	275.3	238.2	311.3	284.0	TEMP=3C, INC=1.21V
HR = 14	18 GHZ	258.0	236.4	300.6	286.8	ORIGINALLY RECORD NO 2
MIN = 56	37 GHZ	243.3	224.4	308.4	284.9	
REC # 25,	INCLIN = 70					
MON = 3	5 GHZ	250.9	216.8	304.6	286.4	TEMP=4C, INC=1.41V
DAY = 2	10 GHZ	248.0	205.9	311.5	284.3	ORIGINALLY RECORD NO 3, FILE 3.
HR = 15	18 GHZ	246.5	217.2	300.6	286.9	
MIN = 10	37 GHZ	234.9	214.6	308.5	284.9	
REC # 26,	INCLIN = 75					
MON = 3	5 GHZ	240.2	204.5	304.7	286.5	ANTENNAS CANNOT FOCUS ON SAME SPOT
DAY = 2	10 GHZ	241.3	209.3	311.6	284.4	AT THIS ANGLE. SLIGHTLY FURTHER OUT
HR = 15	18 GHZ	241.7	214.2	300.4	286.5	SNOW SEEMS THE SAME.
MIN = 17	37 GHZ	221.1	197.5	308.4	284.8	INC=-1.54V
REC # 27,	INCLIN = 80					
MON = 3	5 GHZ	209.3	172.1	304.9	286.5	ANTENNA CAN NOT FOCUS ON SAME SPOT
DAY = 2	10 GHZ	205.8	179.6	311.6	284.5	FURTHER WITHOUT SOME SNOW.
HR = 15	18 GHZ	220.5	206.9	300.4	286.5	WAS FILE 5, REC #5
MIN = 30	37 GHZ	208.2	186.7	308.4	284.8	TEMP=2C, INC=1.72V

END OF RUN.

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 1,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	189.6	194.1	298.5	286.9	
DAY = 6	10 GHZ	252.1	253.3	308.3	285.1	
HR = 14	18 GHZ	271.3	277.1	297.4	283.3	
MIN = 20	37 GHZ	264.5	263.8	304.0	286.4	SPOT SCAN OF ALUMINUM PLATE 818 FT 12.5 CM OF SNOW, PARTLY CLOUDY SKY (SOME SUN) SPOT SCAN. INC=-1.17V TEMP=-1C. BOON AT 20, TAPE NASA1
REC # 2,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	194.5	189.0	300.2	287.0	
DAY = 6	10 GHZ	255.5	254.4	309.9	285.3	
HR = 14	18 GHZ	273.2	278.1	298.7	283.4	
MIN = 30	37 GHZ	265.2	264.7	305.8	286.6	SAME AS ABOVE ONLY ANTENNA MOVE THAT 18 AND 37 GHZ ARE ABOVE SPOT ON PLATE. INC=-1.17V, TEMP=-1C. (SPOT SCAN - 18 & 37 GHZ)
REC # 3,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	196.0	199.7	301.1	287.1	
DAY = 6	10 GHZ	261.5	261.8	310.7	285.4	
HR = 14	18 GHZ	259.9	266.0	299.5	283.5	
MIN = 36	37 GHZ	259.6	257.1	306.7	286.7	SAME EXCEPT NOW X BAND ANTENNAS ARE OVER SPOT ON PLATE. SNOW STILL 12.5 CM DEEP. TEMP=-1C. INC = -1.15V.
REC # 4,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	180.5	179.8	302.2	287.1	
DAY = 6	10 GHZ	247.2	247.3	311.6	285.6	
HR = 14	18 GHZ	268.0	273.7	300.4	283.7	
MIN = 45	37 GHZ	263.1	261.7	307.9	286.7	SAME AS PREVIOUS EXCEPT ANT ARE AT 10 DEG INSTEAD OF NADIR. C BAND. TEMP=-1C, INC=-.8V (SPOT SCAN - 5 GHZ)
REC # 5,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	208.0	177.4	303.4	287.1	
DAY = 6	10 GHZ	238.5	237.6	312.5	285.6	
HR = 14	18 GHZ	266.0	271.6	301.5	284.1	
MIN = 57	37 GHZ	258.7	255.3	309.2	286.7	SAME EXCEPT 18-37 GHZ (SPOT SCAN) INC = -.8V
REC # 6,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	182.1	171.0	304.0	287.1	
DAY = 6	10 GHZ	239.9	240.4	312.9	285.6	
HR = 15	18 GHZ	268.9	272.9	302.1	284.5	
MIN = 6	37 GHZ	254.8	253.1	309.8	286.7	SAME AS ABOVE ONLY X BAND TEMP=0C. INC = -.8V (SPOT SCAN - 10 GHZ)
REC # 7,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	174.4	164.4	303.5	287.0	
DAY = 6	10 GHZ	256.6	255.9	311.7	285.5	
HR = 15	18 GHZ	265.1	265.9	302.1	286.5	
MIN = 16	37 GHZ	264.5	261.1	309.2	286.4	SAME EXCEPT ANT ANGLE IS NOW 20 DEG SNOW ON 818 PLATE STILL 12.5 CM TEMP=.5C, INC=-.46V (SPOT SCAN, CBAND FOR 5 GHZ)
REC # 8,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	186.2	172.2	303.7	286.9	
DAY = 6	10 GHZ	241.1	232.0	311.7	285.4	
HR = 15	18 GHZ	267.2	268.2	302.3	286.8	
MIN = 22	37 GHZ	260.9	257.6	309.3	286.3	SAME - PRASER, INC=-.46V (SPOT SCAN - 18 & 37 GHZ)
REC # 9,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	161.0	141.2	304.0	286.7	
DAY = 6	10 GHZ	247.8	242.9	311.7	285.2	
HR = 15	18 GHZ	260.5	260.4	302.7	287.3	
MIN = 34	37 GHZ	247.3	248.9	309.6	286.0	SAME - INC=-.46V, TEMP=1C (10 GHZ)
REC # 11,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	164.5	154.4	304.2	286.4	
DAY = 6	10 GHZ	257.1	250.5	311.6	284.9	
HR = 15	18 GHZ	269.1	268.5	303.1	287.6	
MIN = 50	37 GHZ	263.3	260.3	309.8	285.6	10 EXTRA PORTION BETWEEN 9411 SPOT SCAN OF METAL PLATE. 12.5 CM OF SNOW ON TOP OF PLATE STILL. SNOW FALLING, INC=-.09V, (5 GHZ)

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REC # 12,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	203.3	159.5	304.3	286.3	SAME AS BEFORE
DAY = 6	10 GHZ	256.3	238.3	311.6	284.7	(SPOT SCAN - 18637 GHZ)
HR = 15	18 GHZ	267.1	270.3	303.1	287.5	INC=-.09V, TEMP=-1C.
MIN = 55	37 GHZ	262.4	258.4	309.8	285.5	
REC # 13,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	165.5	153.9	304.3	286.1	SAME - XBAND
DAY = 6	10 GHZ	243.9	234.8	311.5	284.5	(SPOT SCAN - 10 GHZ)
HR = 16	18 GHZ	265.4	261.5	303.2	287.4	
MIN = 3	37 GHZ	257.6	257.0	309.8	285.2	
REC # 14,	INCLIN = 40	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	168.2	157.9	304.2	285.3	ANT. MOVED TO 40 DEG
DAY = 6	10 GHZ	251.1	234.9	311.2	283.6	SPOT SCAN (5 GHZ) OF PLATE
HR = 16	18 GHZ	266.8	269.2	303.0	286.1	TEMP=-1C
MIN = 14	37 GHZ	264.1	262.3	309.4	284.4	
REC # 15,	INCLIN = 40	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	184.9	150.1	304.2	285.1	SAME
DAY = 6	10 GHZ	258.7	239.4	311.2	283.4	ANT. HANGING FREE
HR = 16	18 GHZ	264.3	264.9	303.0	285.8	(18637 GHZ)
MIN = 25	37 GHZ	263.5	261.1	309.3	284.1	
REC # 16,	INCLIN = 40	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	168.2	162.6	304.2	285.0	SAME, X-BAND
DAY = 6	10 GHZ	243.6	232.8	311.2	283.3	SNOW 12.5 CM DEEP STILL ON PLATE
HR = 16	18 GHZ	263.2	262.3	303.0	285.8	(10 GHZ)
MIN = 32	37 GHZ	258.1	255.5	309.3	284.1	

END OF RUN.

1978 SNMR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 3/ 7/78

REC # 1,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	SPOT SCAN OF METAL PLATE WITH 2 CM POWDER & HARD CRUST UNDERNEATH. TOTAL DEPTH=12.7 CM. TEMP=-2C. ANT MOVED ONE/TIME OVER SPOT. INC=-.54V
MON = 3	5 GHZ	32.5	20.1	294.0	274.1	
DAY = 7	10 GHZ	24.3	27.1	305.6	273.3	
HR = 9	18 GHZ	54.9	58.3	287.5	275.6	
MIN = 44	37 GHZ	120.0	113.4	295.8	274.2	
REC # 2,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	PRASER. DISTURBED SNOW ABOVE PLATE WITH RAKES. TEMP=-2C, INC=-.54V THE FIRST 3 RECORDS A,B,C LISTED MIKES EXPERIMENT RENUMBERED 1,2,3.
MON = 3	5 GHZ	34.8	32.7	297.4	276.1	
DAY = 7	10 GHZ	52.8	55.6	309.1	275.1	
HR = 10	18 GHZ	74.2	74.1	290.7	277.8	
MIN = 2	37 GHZ	104.8	112.3	299.5	276.1	
REC # 3,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	SNOW COMPACTED WITH SNOW SHOES ABOVE PLATE. NEW DEPTH=10 CM. TEMP=-2C, INC=-.54V NEXT REC IS NUMBERED 1.
MON = 3	5 GHZ	22.3	24.0	299.0	277.2	
DAY = 7	10 GHZ	31.9	35.3	310.7	276.1	
HR = 10	18 GHZ	62.0	63.2	292.4	278.8	
MIN = 12	37 GHZ	95.8	104.0	301.3	277.3	
REC # 1,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	CAL OF ANT RESPONSE WITH ECCOSORB ECCOSORB ON X BAND (NO 5,18,37 GHZ DATA) FROM 2C OUTSIDE TO -1C INSIDE
MON = 3	0 GHZ	0.0	0.0	300.5	278.5	
DAY = 7	10 GHZ	270.3	270.8	312.1	277.2	
HR = 10	0 GHZ	0.0	0.0	294.2	279.9	
MIN = 23	0 GHZ	0.0	0.0	303.2	278.6	
REC # 2,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	ECCOSORB ON VERT 5 GHZ PROBLEM WITH THIS CHANNEL (5) (NO 10,18,37 GHZ DATA)
MON = 3	5 GHZ	237.7	310.7	301.4	279.3	
DAY = 7	0 GHZ	0.0	0.0	312.9	277.8	
HR = 10	0 GHZ	0.0	0.0	295.4	280.5	
MIN = 30	0 GHZ	0.0	0.0	304.3	279.4	
REC # 3,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	ECCOSORB ON HORZ 5 GHZ (NO 10,18,37 GHZ DATA)
MON = 3	5 GHZ	331.9	276.2	302.0	280.0	
DAY = 7	0 GHZ	0.0	0.0	313.4	278.4	
HR = 10	0 GHZ	0.0	0.0	296.4	290.9	
MIN = 36	0 GHZ	0.0	0.0	305.1	280.1	
REC # 4,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	ECCOSORB ON 18 & 37 GHZ (NO 5,10 GHZ DATA)
MON = 3	0 GHZ	0.0	0.0	302.9	281.1	
DAY = 7	0 GHZ	0.0	0.0	313.9	279.2	
HR = 10	18 GHZ	292.2	294.7	297.9	281.6	
MIN = 45	37 GHZ	269.8	268.2	306.3	281.3	
REC # 5,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	PIT WITH ALL SNOW REMOVED. LOOKING AT GROUND. INC=-1.17V, TEMP=-1C
MON = 3	5 GHZ	237.3	241.0	304.5	288.6	
DAY = 7	10 GHZ	302.4	295.3	311.6	284.4	
HR = 11	18 GHZ	234.3	241.5	306.9	283.2	
MIN = 42	37 GHZ	255.9	253.0	310.5	289.3	
REC # 6,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	PIT WITH ALL SNOW REMOVED. LOOKING AT BARE GROUND. TEMP=-1C INC=-.55V
MON = 3	5 GHZ	226.2	230.3	304.8	289.3	
DAY = 7	10 GHZ	316.3	271.1	311.6	285.0	
HR = 11	18 GHZ	238.7	242.8	307.3	284.2	
MIN = 52	37 GHZ	257.6	254.7	310.9	289.9	
REC # 8,	INCLIN = -20	T (V)	T (H)	HOT LD.	ANT.	RECORD 7 IS JUNK PIT WITH 3/4 INCHES SNOW ON BOTTOM TEMP=-1C. INC=-.56V
MON = 3	5 GHZ	234.7	235.8	305.0	289.4	
DAY = 7	10 GHZ	270.5	266.7	311.5	285.7	
HR = 12	18 GHZ	244.7	248.1	307.6	285.5	
MIN = 4	37 GHZ	258.8	257.3	311.2	290.4	

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REC # 9,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	245.1	247.8	305.1	290.1	PIT WITH 3/4 INS. SNOW ON BOTTOM
DAY = 7	10 GHZ	303.2	300.9	311.5	286.0	AIR TEMP -1C, INC= -1.17V
HR = 12	18 GHZ	269.0	274.0	307.6	286.2	
MIN = 10	37 GHZ	261.8	261.4	311.2	290.6	
REC # 10,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	252.9	252.1	305.1	290.0	PIT WITH 1.5 INCHES SNOW ON BOTTOM
DAY = 7	10 GHZ	297.4	302.0	311.3	286.5	AIR TEMP IS -1C
HR = 12	18 GHZ	272.8	277.9	306.1	288.9	INC=-1.17V
MIN = 20	37 GHZ	257.0	256.7	310.7	290.2	
REC # 11,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	251.3	243.6	305.2	290.2	PIT WITH 1.5 INCHES SNOW
DAY = 7	10 GHZ	302.4	292.0	311.2	286.8	TEMP=-2C, INC= -.54V
HR = 12	18 GHZ	274.5	277.9	306.0	289.8	
MIN = 28	37 GHZ	257.8	250.5	310.7	290.3	
REC # 12,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	254.8	245.6	305.3	290.4	PIT WITH 2 INCHES SNOW
DAY = 7	10 GHZ	304.8	303.4	311.2	287.3	AIR TEMP = -1C
HR = 12	18 GHZ	275.4	279.3	305.8	290.9	INC= -.54V
MIN = 42	37 GHZ	259.6	260.5	310.7	290.4	
REC # 13,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	256.5	253.6	305.4	290.5	PIT WITH 2 INCHES SNOW
DAY = 7	10 GHZ	302.3	338.5	311.1	287.4	AIR TEMP= -1C
HR = 12	18 GHZ	276.9	279.1	305.7	291.4	INC= -1.17V
MIN = 50	37 GHZ	260.0	259.5	310.7	290.5	
REC # 14,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.6	256.5	305.5	290.5	PIT WITH 2.5 INCHES SNOW
DAY = 7	10 GHZ	326.9	338.0	311.1	287.6	AIR TEMP= 0C, INC= -1.17V
HR = 13	18 GHZ	275.3	281.2	305.7	291.9	
MIN = 1	37 GHZ	254.0	252.4	310.7	290.5	
REC # 15,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	258.2	250.8	305.6	290.4	PIT WITH 2.5 INCHES SNOW
DAY = 7	10 GHZ	302.9	310.8	311.1	287.7	TEMP=1C, INC= -.54V
HR = 13	18 GHZ	276.0	281.0	305.7	291.6	
MIN = 10	37 GHZ	258.9	260.5	310.7	290.5	
REC # 16,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	257.9	253.8	305.7	290.4	PIT WITH 3.5 INCHES SNOW
DAY = 7	10 GHZ	289.1	298.7	311.1	287.7	TEMP=1C, INC= -.54V
HR = 13	18 GHZ	277.4	280.8	305.7	291.6	
MIN = 24	37 GHZ	256.5	258.1	310.7	290.5	
REC # 17,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	261.1	257.4	305.8	290.4	PIT WITH 3.5 INCHES SNOW
DAY = 7	10 GHZ	306.9	284.0	311.1	287.7	TEMP=-1C, INC= -1.17V
HR = 13	18 GHZ	277.3	280.6	305.8	291.6	
MIN = 31	37 GHZ	254.5	253.3	310.7	290.4	
REC # 18,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.6	257.2	305.8	290.4	PIT WITH 4 INCHES SNOW
DAY = 7	10 GHZ	298.1	294.7	311.1	287.7	TEMP=-1C, INC= -1.17V
HR = 13	18 GHZ	275.7	279.9	305.9	291.6	
MIN = 40	37 GHZ	247.0	245.7	310.7	290.3	

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REC # 19,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	258.9	251.1	305.9	290.4	
DAY = 7	10 GHZ	306.9	305.1	311.1	287.6	
HR = 13	18 GHZ	276.2	279.5	306.0	291.4	
MIN = 50	37 GHZ	253.8	253.0	310.7	290.2	PIT WITH 4 SNOW TEMP=-.5C, INC= -.54V
REC # 20,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.6	252.8	305.8	290.3	
DAY = 7	10 GHZ	304.7	310.8	311.1	287.2	
HR = 14	18 GHZ	275.9	279.8	306.6	290.5	
MIN = 2	37 GHZ	251.7	251.9	310.7	289.6	PIT WITH 4.5 SNOW, TEMP=0C, INC=-.54V
REC # 21,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	260.9	256.7	305.8	290.2	
DAY = 7	10 GHZ	292.2	290.2	311.1	287.1	
HR = 14	18 GHZ	275.3	280.6	306.8	290.3	
MIN = 10	37 GHZ	251.6	250.8	310.7	289.4	PIT WITH 4.5 SNOW, TEMP=0C INC=-1.17V
REC # 22,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	258.2	254.9	305.8	290.2	
DAY = 7	10 GHZ	262.4	264.1	311.1	287.0	
HR = 14	18 GHZ	275.4	280.2	306.9	290.2	
MIN = 20	37 GHZ	242.1	237.6	310.7	289.3	PIT WITH 5.0 SNOW, TEMP=0C INC=-1.17V
REC # 23,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	255.1	249.0	305.8	290.2	
DAY = 7	10 GHZ	263.4	262.8	311.1	286.9	
HR = 14	18 GHZ	250.4	257.2	307.0	290.2	
MIN = 29	37 GHZ	237.1	232.1	310.7	289.3	PIT WITH 5.0 SNOW TEMP=.5C, INC= -.54V
REC # 24,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	260.7	253.1	305.8	290.2	
DAY = 7	10 GHZ	263.4	263.7	311.2	286.9	
HR = 14	18 GHZ	250.7	259.0	307.1	290.2	
MIN = 40	37 GHZ	249.5	249.0	310.6	289.3	PIT WITH 5.5 SNOW TEMP=.5C, INC= -.54V
REC # 25,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	261.1	256.6	305.8	290.2	
DAY = 7	10 GHZ	264.9	265.8	311.3	286.9	
HR = 14	18 GHZ	256.1	259.7	307.2	290.3	
MIN = 50	37 GHZ	248.1	245.8	310.6	289.3	PIT WITH 5.5 SNOW TEMP=.5C, INC= -1.17V
REC # 26,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	258.9	255.0	305.8	290.2	
DAY = 7	10 GHZ	264.6	265.0	311.3	287.0	
HR = 15	18 GHZ	251.9	257.0	307.2	290.5	
MIN = 0	37 GHZ	240.9	238.7	310.5	289.5	PIT WITH 6 INCHES SNOW TEMP=0C, INC= -1.17V
REC # 27,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.0	251.4	305.8	290.3	
DAY = 7	10 GHZ	263.1	263.5	311.6	287.4	
HR = 15	18 GHZ	251.4	258.7	307.0	291.4	
MIN = 7	37 GHZ	249.6	249.1	310.3	290.1	PIT WITH 6 INCHES SNOW TEMP=-.5C, INC= -.54V
REC # 28,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	260.9	252.9	305.8	290.3	
DAY = 7	10 GHZ	264.2	264.1	311.6	287.4	
HR = 15	18 GHZ	254.2	259.9	307.0	291.6	
MIN = 17	37 GHZ	250.1	248.1	310.3	290.2	PIT WITH 6.5 INCHES SNOW TEMP=-.5C, INC= -.54V

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 29,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	260.0	255.7	305.8	290.2	
DAY = 7	10 GHZ	265.2	266.5	311.6	287.4	
HR = 15	18 GHZ	256.8	262.8	307.0	291.6	PIT WITH 6.5 INCHES SNOW
MIN = 25	37 GHZ	244.7	244.9	310.2	290.2	TEMP=0C, INC= -1.17V
REC # 30,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	255.5	251.6	305.8	290.1	
DAY = 7	10 GHZ	264.8	266.1	311.6	287.3	
HR = 15	18 GHZ	251.6	258.3	307.1	291.6	PIT WITH 7 INCHES SNOW
MIN = 38	37 GHZ	234.7	232.8	310.2	290.1	TEMP=-.5C, INC = -1.17V
REC # 31,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	255.1	245.5	305.8	290.0	
DAY = 7	10 GHZ	265.2	263.7	311.6	287.2	
HR = 15	18 GHZ	245.0	250.9	307.1	291.6	PIT WITH 7 INCHES SNOW
MIN = 43	37 GHZ	237.2	230.6	310.2	290.1	TEMP=-1C, INC= -.54V
REC # 32,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	258.4	251.4	305.8	289.9	
DAY = 7	10 GHZ	264.8	263.8	311.6	287.1	
HR = 15	18 GHZ	251.2	252.6	307.2	291.5	PIT WITH 7.5 INCHES SNOW
MIN = 51	37 GHZ	243.9	242.1	310.1	289.9	TEMP=-1C, INC= -.54V
REC # 33,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	256.7	252.4	305.8	289.7	
DAY = 7	10 GHZ	264.8	265.6	311.5	286.9	
HR = 16	18 GHZ	254.7	258.2	307.2	291.3	PIT WITH 7.5 INCHES SNOW
MIN = 0	37 GHZ	240.3	238.5	310.1	289.7	TEMP=-1C, INC= -1.17V
REC # 34,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	248.6	243.6	305.8	289.0	
DAY = 7	10 GHZ	263.7	264.6	311.2	286.3	
HR = 16	18 GHZ	255.5	257.0	307.4	290.4	PIT WITH 8 INCHES SNOW
MIN = 10	37 GHZ	225.8	222.7	310.2	288.8	TEMP=-1C, INC= -1.17V
REC # 36,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	247.9	239.5	305.8	288.9	
DAY = 7	10 GHZ	264.0	264.3	311.2	286.2	
HR = 16	18 GHZ	254.3	257.6	307.5	290.2	RECORD 35 IS GARBAGE
MIN = 20	37 GHZ	240.1	238.5	310.2	288.7	8 INCH DEEP SNOW
REC # 37,	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	-21.5	-20.7	305.8	288.8	
DAY = 7	10 GHZ	4.3	6.5	311.1	286.1	
HR = 16	18 GHZ	24.2	24.4	307.5	290.2	CLEAR SKY, LOOKING SOUTHWEST
MIN = 32	37 GHZ	18.6	28.5	310.2	288.6	AIR TEMP = -1C
						INC= 2.29V
						SKY CAL

END OF RUN.

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REC # 1,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	LOCATION - FRAZER
MON = 3	5 GHZ	254.4	252.8	289.8	264.8	SNOW PIT DEPTH 8 INCHES
DAY = 8	10 GHZ	263.7	280.0	305.7	264.3	INC=-1.17V AIR TEMP=-8C
HR = 9	18 GHZ	277.6	282.9	283.1	266.0	
MIN = 30	37 GHZ	238.3	233.4	292.0	268.0	
REC # 2,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	SNOW PIT
MON = 3	5 GHZ	256.4	253.0	293.7	266.6	SNOW DEPTH 8 INCHES
DAY = 8	10 GHZ	518.1	465.7	310.7	267.5	INC=-.59V AIR TEMP=-7C
HR = 9	18 GHZ	278.4	280.9	286.0	269.2	
MIN = 43	37 GHZ	245.0	242.8	295.7	269.6	
REC # 4,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	RECORD 3 HAD 2 BAD WRITES
MON = 3	5 GHZ	249.5	245.7	295.7	268.2	PIT WITH SNOW 8.5 IN. DEEP
DAY = 8	10 GHZ	515.3	454.5	311.8	268.4	INC=-.59V AIR TEMP=-8C
HR = 9	18 GHZ	275.5	278.3	287.4	271.6	
MIN = 52	37 GHZ	244.0	241.5	297.8	270.9	
REC # 5,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	PIT WITH SNOW 8.5 IN. DEEP
MON = 3	5 GHZ	248.5	246.8	297.4	270.4	INC=-1.17V, AIR TEMP=-6C
DAY = 8	10 GHZ	296.4	314.1	311.1	268.5	
HR = 10	18 GHZ	272.5	280.5	288.5	274.3	
MIN = 2	37 GHZ	239.4	237.6	299.8	272.5	
REC # 6,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	PIT WITH 9 IN. SNOW
MON = 3	5 GHZ	254.1	255.9	299.2	272.9	INC=-1.18V, AIR TEMP=-4C
DAY = 8	10 GHZ	354.7	333.8	311.1	270.1	
HR = 10	18 GHZ	273.4	278.3	290.3	277.1	
MIN = 14	37 GHZ	231.8	227.6	302.0	274.3	
REC # 7,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	PIT WITH 9 IN. SNOW
MON = 3	5 GHZ	251.6	250.3	299.9	274.5	INC=-.59V AIR TEMP=-4C
DAY = 8	10 GHZ	404.3	446.9	311.1	272.6	
HR = 10	18 GHZ	274.3	276.5	292.0	278.3	
MIN = 21	37 GHZ	242.7	239.9	302.9	275.5	
REC # 8,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	PIT WITH 9.5 IN. SNOW
MON = 3	5 GHZ	252.1	250.5	301.3	276.7	INC=-.59V, AIR TEMP=-3C
DAY = 8	10 GHZ	491.0	492.6	311.1	274.8	
HR = 10	18 GHZ	271.2	274.1	293.9	280.5	
MIN = 33	37 GHZ	241.7	239.0	304.7	277.3	
REC # 9,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	PIT WITH 9.5 IN. SNOW
MON = 3	5 GHZ	253.6	254.4	302.2	278.3	INC=-1.18V, AIR TEMP=-4.5C
DAY = 8	10 GHZ	450.9	432.0	311.2	276.3	
HR = 10	18 GHZ	272.2	274.9	295.3	282.1	
MIN = 42	37 GHZ	235.1	233.2	305.9	278.6	
REC # 10,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	PIT WITH 10 IN. SNOW
MON = 3	5 GHZ	251.9	253.4	303.0	280.0	AIR TEMP=-3.5C
DAY = 8	10 GHZ	493.5	351.3	311.2	277.9	
HR = 10	18 GHZ	270.8	274.6	296.7	283.7	
MIN = 52	37 GHZ	228.8	227.8	307.0	280.1	
REC # 11,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	PIT WITH 10 IN. SNOW
MON = 3	5 GHZ	253.7	250.6	303.4	281.0	INC=-.58V, AIR TEMP=-1C
DAY = 8	10 GHZ	251.5	250.3	311.3	278.9	
HR = 10	18 GHZ	264.8	268.3	297.6	284.7	
MIN = 59	37 GHZ	238.7	235.5	307.8	281.0	

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REC # 12,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 11 IN. SNOW INC=-.58V, AIR TEMP=-1C
MON = 3	5 GHZ	255.4	251.9	303.8	283.0	
DAY = 8	10 GHZ	256.2	255.1	311.5	280.8	
HR = 11	18 GHZ	280.0	282.2	299.4	286.5	
MIN = 15	37 GHZ	242.7	239.9	309.2	283.1	
REC # 13,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 11 IN. SNOW INC=-1.17V, AIR TEMP=-1C
MON = 3	5 GHZ	256.6	257.6	304.4	284.5	
DAY = 8	10 GHZ	257.1	257.4	311.6	282.1	
HR = 11	18 GHZ	279.2	283.6	300.7	287.9	
MIN = 26	37 GHZ	240.8	239.2	310.0	284.5	
REC # 14,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 12 IN. SNOW INC=-1.17V, AIR TEMP=+1.5C
MON = 3	5 GHZ	254.3	255.5	305.1	286.6	
DAY = 8	10 GHZ	258.0	258.2	311.7	284.1	
HR = 11	18 GHZ	276.9	282.3	302.6	289.9	
MIN = 43	37 GHZ	230.9	227.7	310.8	286.5	
REC # 15,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 12 IN. SNOW INC=-.58V, AIR TEMP=-1C
MON = 3	5 GHZ	255.5	252.0	305.6	288.2	
DAY = 8	10 GHZ	256.9	255.3	311.7	285.5	
HR = 11	18 GHZ	280.1	283.8	304.0	291.5	
MIN = 57	37 GHZ	248.7	246.2	311.2	288.1	
REC # 16,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 13 IN. SNOW INC=-.58V,
MON = 3	5 GHZ	257.9	253.8	305.9	289.2	
DAY = 8	10 GHZ	259.9	257.9	311.6	286.3	
HR = 12	18 GHZ	280.8	282.2	305.0	292.7	
MIN = 6	37 GHZ	255.4	252.0	310.8	289.1	
REC # 17,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 13 IN. SNOW INC=-1.17V, AIR TEMP=+4C
MON = 3	5 GHZ	256.9	258.3	306.2	290.0	
DAY = 8	10 GHZ	260.3	260.6	311.6	286.9	
HR = 12	18 GHZ	283.6	287.3	305.7	293.4	
MIN = 13	37 GHZ	255.1	252.0	310.9	289.8	
REC # 18,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 14 IN. SNOW INC=-1.17V, AIR TEMP=+3.5C
MON = 3	5 GHZ	254.8	255.0	306.5	291.2	
DAY = 8	10 GHZ	263.7	264.1	311.6	288.1	
HR = 12	18 GHZ	282.6	288.0	306.7	294.5	
MIN = 26	37 GHZ	243.5	241.6	311.1	291.0	
REC # 19,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 14 IN. SNOW
MON = 3	5 GHZ	254.3	248.9	306.7	292.1	
DAY = 8	10 GHZ	262.5	261.0	311.6	288.8	
HR = 12	18 GHZ	282.6	284.0	307.4	295.1	
MIN = 35	37 GHZ	254.3	253.1	311.2	291.8	
REC # 20,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 15 IN. SNOW INC=-.60V, AIR TEMP=0C
MON = 3	5 GHZ	258.8	255.4	307.0	293.2	
DAY = 8	10 GHZ	262.5	261.4	311.6	289.8	
HR = 12	18 GHZ	257.1	255.0	308.3	295.8	
MIN = 48	37 GHZ	258.5	255.6	311.4	292.9	
REC # 21,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 15 IN. SNOW INC=-1.17V, AIR TEMP=+.5C
MON = 3	5 GHZ	259.8	258.8	307.2	294.2	
DAY = 8	10 GHZ	264.3	265.6	311.6	290.6	
HR = 13	18 GHZ	253.7	260.8	309.0	296.3	
MIN = 0	37 GHZ	255.9	255.1	311.5	293.8	

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REC # 22,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 16 IN. SNOW INC=-1.17V, AIR TEMP=+5C
MON = 3	5 GHZ	251.4	250.4	307.4	295.3	
DAY = 8	10 GHZ	265.3	266.2	311.6	291.5	
HR = 13	18 GHZ	253.1	260.1	309.7	296.6	
MIN = 15	37 GHZ	243.6	241.7	311.7	294.8	
REC # 23,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 16 IN. SNOW INC=-.6V, AIR TEMP=+9C NEW NITROGEN AT THIS POINT
MON = 3	5 GHZ	248.5	242.7	307.5	295.7	
DAY = 8	10 GHZ	263.8	263.7	311.6	291.9	
HR = 13	18 GHZ	252.5	254.5	309.9	296.7	
MIN = 22	37 GHZ	247.7	243.0	311.7	295.2	
REC # 24,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 17 IN. SNOW INC=-.59V, AIR TEMP=+7C
MON = 3	5 GHZ	262.7	256.0	307.3	297.8	
DAY = 8	10 GHZ	262.3	261.2	311.6	293.6	
HR = 13	18 GHZ	256.2	257.3	310.3	294.4	
MIN = 56	37 GHZ	267.0	267.5	312.0	296.9	
REC # 25,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 17 IN. SNOW INC=-1.17V, AIR TEMP=+6C
MON = 3	5 GHZ	265.1	263.7	307.4	298.3	
DAY = 8	10 GHZ	267.2	267.6	311.6	294.0	
HR = 14	18 GHZ	251.9	257.4	310.5	294.7	
MIN = 10	37 GHZ	268.8	270.4	312.1	297.3	
REC # 26,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 18 IN. SNOW INC=-1.17V, AIR TEMP= 4C
MON = 3	5 GHZ	269.1	267.9	307.5	298.4	
DAY = 8	10 GHZ	266.2	266.6	311.6	294.2	
HR = 14	18 GHZ	250.7	256.5	310.7	295.0	
MIN = 20	37 GHZ	260.2	261.8	312.1	297.5	
REC # 27,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 18 IN. SNOW INC=-.59V, AIR TEMP= 5C
MON = 3	5 GHZ	268.4	264.2	307.6	298.6	
DAY = 8	10 GHZ	263.5	262.0	311.6	294.4	
HR = 14	18 GHZ	251.0	253.7	310.8	295.5	
MIN = 32	37 GHZ	267.2	267.0	312.1	297.7	
REC # 28,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 19 IN. SNOW INC=-.59V, AIR TEMP= 5C
MON = 3	5 GHZ	267.3	263.1	307.8	298.3	
DAY = 8	10 GHZ	263.5	261.5	311.6	294.3	
HR = 14	18 GHZ	250.4	253.7	310.7	296.8	
MIN = 51	37 GHZ	267.1	265.8	312.1	297.6	
REC # 29,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 19 IN. SNOW INC=-1.18V, AIR TEMP= 5C
MON = 3	5 GHZ	268.3	266.4	307.9	298.2	
DAY = 8	10 GHZ	266.9	265.9	311.6	294.3	
HR = 15	18 GHZ	252.5	254.8	310.7	297.2	
MIN = 0	37 GHZ	267.1	260.4	312.1	297.6	
REC # 30,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 20 IN. SNOW INC=-1.18V, AIR TEMP= 4C
MON = 3	5 GHZ	268.6	266.1	308.0	298.1	
DAY = 8	10 GHZ	266.8	267.2	311.6	294.2	
HR = 15	18 GHZ	252.1	257.3	310.7	297.7	
MIN = 16	37 GHZ	264.3	267.3	312.1	297.5	
REC # 31,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	PIT WITH 20 IN. SNOW INC=-.59V, AIR TEMP= 4C
MON = 3	5 GHZ	267.0	263.8	308.0	298.0	
DAY = 8	10 GHZ	265.4	264.3	311.6	294.1	
HR = 15	18 GHZ	251.2	252.6	310.7	297.9	
MIN = 26	37 GHZ	263.5	263.2	312.1	297.4	

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REC # 32,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	267.2	264.0	308.0	297.8	PIT WITH 21 IN. SNOW
DAY = 8	10 GHZ	266.0	264.9	311.6	293.9	INC=-.55V, AIR TEMP= 4.5C
HR = 15	18 GHZ	251.5	256.1	310.7	298.0	
MIN = 42	37 GHZ	261.7	262.9	312.1	297.2	
REC # 33,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	269.8	267.7	307.9	297.4	PIT WITH 21 IN. SNOW
DAY = 8	10 GHZ	266.8	267.2	311.6	293.5	INC=-1.18V, AIR TEMP= 4C
HR = 15	18 GHZ	254.3	257.4	310.7	297.6	
MIN = 52	37 GHZ	258.2	257.9	312.1	296.8	
REC # 34,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	267.6	265.6	307.9	297.3	PIT WITH 22 IN. SNOW
DAY = 8	10 GHZ	266.9	267.3	311.6	293.4	INC=-1.19V, AIR TEMP= 3C
HR = 16	18 GHZ	251.2	257.1	310.7	297.6	
MIN = 5	37 GHZ	244.8	244.6	312.1	296.8	
REC # 35,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	268.9	264.1	307.9	297.3	PIT WITH 22 IN. SNOW
DAY = 8	10 GHZ	266.3	265.3	311.6	293.4	INC=-.59V, AIR TEMP= 3C
HR = 16	18 GHZ	251.3	257.6	310.7	297.6	
MIN = 15	37 GHZ	253.8	253.9	312.1	296.7	
REC # 36,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	268.9	264.8	307.9	297.3	PIT WITH 23 IN. SNOW
DAY = 8	10 GHZ	266.0	265.4	311.6	293.4	AIR TEMP= 3C
HR = 16	18 GHZ	249.4	254.8	310.7	297.6	
MIN = 29	37 GHZ	251.2	250.7	312.1	296.7	
REC # 37,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	269.0	266.4	307.9	297.3	PIT WITH 23 IN. SNOW
DAY = 8	10 GHZ	266.3	267.2	311.6	293.4	
HR = 16	18 GHZ	249.6	256.1	310.7	297.6	
MIN = 37	37 GHZ	251.3	253.9	312.1	296.7	
REC # 38,	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	-0.2	-0.3	307.9	297.3	SKY LOOKING SOUTH WEST
DAY = 8	10 GHZ	-0.1	1.0	311.6	293.4	INC=+2.1 V
HR = 16	18 GHZ	12.4	17.6	310.7	297.6	
MIN = 46	37 GHZ	11.9	22.0	312.1	296.7	

END OF RUN.

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REC # 1,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	253.1	254.2	286.8	259.7	PIT WITH 23 IN. SNOW
DAY = 9	10 GHZ	247.8	249.8	301.1	258.9	INC=-1.17V AIR TEMP=-15C
HR = 9	18 GHZ	170.3	219.0	274.9	257.7	18 GHZ NOT WORKING YET
MIN = 12	37 GHZ	227.5	227.1	284.8	259.3	REC(A) FRASER
REC # 2,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	248.1	247.5	288.1	260.1	REC(B)
DAY = 9	10 GHZ	241.1	239.1	302.2	259.4	PIT WITH 23 IN. SNOW
HR = 9	18 GHZ	282.0	286.2	276.0	258.7	INC=-.59V AIR TEMP=-15C
MIN = 17	37 GHZ	229.7	226.9	286.4	259.7	
REC # 3,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	250.7	249.8	291.1	261.3	REC(C) PIT WITH 24 IN. SNOW
DAY = 9	10 GHZ	240.8	238.0	304.8	260.8	INC=-.59V AIR TEMP=-15C
HR = 9	18 GHZ	279.1	286.2	278.7	261.4	
MIN = 30	37 GHZ	227.8	225.7	290.0	261.0	
REC # 4,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	249.0	250.0	293.1	262.4	REC(D) 24 IN. SNOW
DAY = 9	10 GHZ	245.8	246.0	306.5	262.0	INC=-.59V AIR TEMP=-10C
HR = 9	18 GHZ	276.5	280.8	280.6	263.4	
MIN = 40	37 GHZ	218.9	216.2	292.4	262.1	
REC # 5,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	248.2	249.2	294.4	263.2	REC(E) 25 IN. SNOW
DAY = 9	10 GHZ	246.0	246.7	307.6	262.9	
HR = 9	18 GHZ	278.9	282.2	281.9	264.8	
MIN = 47	37 GHZ	215.1	212.6	294.0	262.9	
REC # 6,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	250.0	247.1	295.1	263.7	REC(F) 25 IN. SNOW
DAY = 9	10 GHZ	246.0	244.0	308.1	263.4	
HR = 9	18 GHZ	277.8	278.8	282.6	265.6	
MIN = 51	37 GHZ	223.2	220.8	294.8	263.4	
REC # 7,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	248.9	245.7	296.5	264.9	REC(G) 26 IN. SNOW
DAY = 9	10 GHZ	246.7	244.7	309.1	264.6	INC=-.58V AIR TEMP=-9C
HR = 10	18 GHZ	273.5	275.9	284.0	267.4	
MIN = 0	37 GHZ	224.1	221.3	296.6	264.7	
REC # 8,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	250.7	245.9	297.3	265.8	REC(H) 26 IN. SNOW
DAY = 9	10 GHZ	247.9	249.4	309.7	265.4	INC=-1.17V AIR TEMP=-8C
HR = 10	18 GHZ	276.6	277.1	284.9	268.6	
MIN = 6	37 GHZ	215.8	211.9	297.6	265.5	
REC # 9,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	246.7	249.2	298.4	267.2	REC(I) 27 IN. SNOW
DAY = 9	10 GHZ	249.1	250.2	310.4	266.8	INC=-1.16V TEMP=-5C
HR = 10	18 GHZ	270.1	275.5	286.1	270.3	
MIN = 15	37 GHZ	214.2	210.5	298.9	266.9	
REC # 10,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	251.1	250.1	299.3	268.7	REC(J) 27 IN. SNOW
DAY = 9	10 GHZ	245.6	242.7	310.9	268.1	INC=-.58V
HR = 10	18 GHZ	273.5	275.3	287.2	272.1	
MIN = 24	37 GHZ	223.9	219.6	300.1	268.3	

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REC # 11, MON = 3 DAY = 9 HR = 10 MIN = 30	INCLIN = 20 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 246.3 245.5 270.1 222.0	T(H) 244.8 241.6 273.9 217.1	HOT LD. 299.8 311.1 287.9 300.7	ANT. 269.8 269.1 273.3 269.4	REC(K) 28 IN. SNOW INC=-.58V
REC # 12, MON = 3 DAY = 9 HR = 10 MIN = 33	INCLIN = 0 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 253.2 250.9 269.8 215.9	T(H) 252.4 250.3 276.6 211.1	HOT LD. 300.0 311.1 288.2 301.0	ANT. 270.3 269.6 273.8 269.9	REC(L) 28 IN. SNOW INC=-1.18V TEMP=-5C
REC # 13, MON = 3 DAY = 9 HR = 10 MIN = 40	INCLIN = 0 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 251.9 250.0 268.1 211.8	T(H) 250.2 249.8 272.5 206.4	HOT LD. 300.4 311.2 288.9 301.5	ANT. 271.7 270.7 275.2 271.2	REC(M) 29 IN. SNOW INC=-1.17V TEMP=-6.5C
REC # 14, MON = 3 DAY = 9 HR = 10 MIN = 52	INCLIN = 20 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 246.4 246.6 265.4 219.8	T(H) 243.8 243.6 269.3 216.8	HOT LD. 300.8 311.0 289.9 302.2	ANT. 274.1 272.8 277.5 273.5	REC(N) 29 IN. SNOW INC=-.57V TEMP=-5C
REC # 15, MON = 3 DAY = 9 HR = 10 MIN = 58	INCLIN = 20 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 249.6 244.7 266.1 219.5	T(H) 247.5 244.7 271.1 214.2	HOT LD. 300.9 310.7 290.3 302.3	ANT. 275.4 273.9 278.6 274.7	REC(O) 30 IN. SNOW INC=-.57V TEMP=-5C
REC # 16, MON = 3 DAY = 9 HR = 11 MIN = 1	INCLIN = 0 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 251.8 251.0 267.1 214.9	T(H) 254.6 251.7 270.9 210.5	HOT LD. 300.9 310.6 290.5 302.4	ANT. 276.1 274.5 279.2 275.3	REC(P) 30 IN. SNOW INC=-1.17V TEMP=-5C LAST OF FIRST PART OF FLIGHT RECS (A-P) REORDERED 1-16
REC # 17, MON = 3 DAY = 9 HR = 12 MIN = 32	INCLIN = 0 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 250.2 254.3 273.6 257.3	T(H) 243.0 255.1 278.0 254.0	HOT LD. 299.7 304.4 298.0 302.1	ANT. 296.3 292.5 294.4 294.4	BEGINNING OF SECOND PART OF STUDY RECS (1-21) REORDERED 17-36 REC(1) 28.5 IN. SNOW INC=-1.17V TEMP=3C
REC # 18, MON = 3 DAY = 9 HR = 12 MIN = 40	INCLIN = 10 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 254.7 254.8 270.0 260.8	T(H) 246.7 255.1 274.8 257.3	HOT LD. 303.7 308.6 304.6 307.1	ANT. 296.3 294.7 295.4 294.8	REC(2) 28.5 IN. SNOW INC=-.94V TEMP=4C
REC # 19, MON = 3 DAY = 9 HR = 12 MIN = 47	INCLIN = 20 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 259.2 262.3 271.8 259.5	T(H) 249.8 261.8 273.4 257.8	HOT LD. 304.8 309.7 306.5 308.4	ANT. 296.8 295.6 296.0 295.3	REC(3) 28.5 IN. SNOW INC=-.57V TEMP=4C
REC # 20, MON = 3 DAY = 9 HR = 12 MIN = 57	INCLIN = 30 5 GHZ 10 GHZ 18 GHZ 37 GHZ	T(V) 263.2 265.4 265.7 262.8	T(H) 250.1 264.4 266.0 254.1	HOT LD. 306.2 310.9 308.8 310.1	ANT. 297.4 296.8 296.8 296.0	REC(4) 28.5 IN. SNOW 4 FT. FROM SNOW INC=-.34V

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REC # 21,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REC(5) ALL SNOW REMOVED TIME APPROXIMATED
MON = 3	5 GHZ	238.0	238.8	307.9	298.3	
DAY = 9	10 GHZ	251.5	252.6	312.3	298.4	
HR = 13	18 GHZ	255.7	260.8	311.5	297.9	
MIN = 15	37 GHZ	257.0	256.0	312.1	296.9	
REC # 22,	INCLIN = 120	T(V)	T(H)	HOT LD.	ANT.	REC(6) ALL SNOW REMOVED SURFACE MELT ON SNOW
MON = 3	5 GHZ	259.3	245.4	308.6	298.8	
DAY = 9	10 GHZ	263.5	262.0	312.9	299.0	
HR = 13	18 GHZ	257.6	251.0	312.5	298.4	
MIN = 30	37 GHZ	261.1	256.9	312.9	297.3	
REC # 23,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REC(7) 23 IN. SNOW 8 FT. FROM SNOW INC=-1.18V
MON = 3	5 GHZ	257.7	256.9	307.6	298.6	
DAY = 9	10 GHZ	262.5	261.4	311.6	298.2	
HR = 13	18 GHZ	264.1	266.8	310.1	298.2	
MIN = 40	37 GHZ	261.5	259.7	311.4	297.1	
REC # 24,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	REC(9) - REC(8) RESET 23 IN. SNOW VISIBLE SURFACE MELT WATER EVIDENT 3/4 IN. DEEP AIR TEMP=5C
MON = 3	5 GHZ	255.6	250.4	307.8	298.9	
DAY = 9	10 GHZ	259.8	260.2	311.6	298.3	
HR = 13	18 GHZ	262.4	266.9	310.2	298.3	
MIN = 52	37 GHZ	259.6	261.1	311.5	297.2	
REC # 25,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	REC(10) 23 IN. SNOW ON SIDE ROAD BY TREES
MON = 3	5 GHZ	251.1	237.7	307.9	299.0	
DAY = 9	10 GHZ	262.4	249.6	311.6	298.4	
HR = 14	18 GHZ	261.9	264.8	310.2	298.4	
MIN = 0	37 GHZ	267.9	267.5	311.6	297.3	
REC # 26,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC(11) 23 IN. SNOW
MON = 3	5 GHZ	248.8	232.9	308.0	299.1	
DAY = 9	10 GHZ	260.5	250.5	311.6	298.5	
HR = 14	18 GHZ	260.8	263.8	310.2	298.5	
MIN = 8	37 GHZ	267.7	267.8	311.6	297.3	
REC # 27,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	REC(12) 23 IN. SNOW ANTENNAS AT 40-42 (FREE HANG)
MON = 3	5 GHZ	261.1	241.3	308.1	299.3	
DAY = 9	10 GHZ	262.8	252.7	311.6	298.5	
HR = 14	18 GHZ	267.0	265.1	310.3	298.5	
MIN = 16	37 GHZ	268.5	265.7	311.7	297.4	
REC # 28,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REC(13) ALL SNOW REMOVED
MON = 3	5 GHZ	259.0	259.3	308.3	299.5	
DAY = 9	10 GHZ	257.6	258.4	311.6	298.7	
HR = 14	18 GHZ	262.4	266.8	310.5	298.4	
MIN = 40	37 GHZ	259.2	257.6	311.9	297.4	
REC # 29,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	REC(14) ALL SNOW REMOVED ANTENNAS AT 40-42 (FREE HANG)
MON = 3	5 GHZ	260.6	254.5	308.4	299.6	
DAY = 9	10 GHZ	263.1	251.3	311.6	298.7	
HR = 14	18 GHZ	263.1	262.7	310.5	298.3	
MIN = 45	37 GHZ	267.1	265.9	311.7	297.4	
REC # 30,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REC(15) REFILL LIQUID NITROGEN SITE IS ON SIDE ROAD IN TREES ANTENNAS AT RADAR 8-10 FT. HIGH
MON = 3	5 GHZ	261.4	260.6	308.8	299.7	
DAY = 9	10 GHZ	257.2	256.5	311.6	298.8	
HR = 15	18 GHZ	260.8	265.5	311.1	297.3	
MIN = 21	37 GHZ	268.9	268.0	312.1	297.0	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 31,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
HOW = 3	5 GHZ	257.1	255.9	308.8	299.8	REC(16) 14 IN. SITE
DAY = 9	10 GHZ	256.8	257.6	311.6	298.8	
HR = 15	18 GHZ	259.5	262.8	311.1	297.3	
MIN = 30	37 GHZ	266.8	266.3	312.1	297.0	
REC # 32,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
HOW = 3	5 GHZ	257.7	249.6	308.8	299.8	REC(17) 14 IN.
DAY = 9	10 GHZ	262.6	260.1	311.6	298.8	AIR TEMP=4C
HR = 15	18 GHZ	262.7	265.5	311.1	297.3	
MIN = 40	37 GHZ	269.0	268.2	312.1	297.0	
REC # 33,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
HOW = 3	5 GHZ	260.6	245.0	308.8	299.8	REC(18) 14 IN.
DAY = 9	10 GHZ	263.7	259.8	311.6	298.8	
HR = 15	18 GHZ	261.0	263.5	311.1	297.3	
MIN = 47	37 GHZ	268.8	268.5	312.1	297.0	
REC # 34,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
HOW = 3	5 GHZ	266.9	232.8	308.8	299.8	REC(19) 14 IN.
DAY = 9	10 GHZ	261.9	255.3	311.6	298.8	ANTENNAS AT 40-42 (FREE HANG)
HR = 15	18 GHZ	262.5	259.7	311.1	297.3	
MIN = 55	37 GHZ	267.5	268.7	312.1	297.0	
REC # 35,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
HOW = 3	5 GHZ	272.1	270.5	308.8	299.8	REC(20) 14 IN.
DAY = 9	10 GHZ	265.7	265.1	311.6	298.8	
HR = 16	18 GHZ	265.1	269.3	311.1	297.3	
MIN = 10	37 GHZ	263.7	264.2	312.1	297.0	
REC # 36,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
HOW = 3	5 GHZ	271.5	263.3	308.8	299.8	REC(21) 14 IN. SITE
DAY = 9	10 GHZ	254.7	256.7	311.6	298.8	ALL SNOW REMOVED
HR = 16	18 GHZ	264.4	264.7	311.1	297.3	ANTENNAS AT 40-42 (FREE HANG)
MIN = 27	37 GHZ	261.2	258.3	312.1	297.0	

END OF RUN.

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REC # 1,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	FIRST PART OF STUDY - RECS (A-B) RENUMBERED (1-18) SNOW 38 IN DEEP SWATH SCAN SITE 6 WEST SIDE OF ROAD 15 FT FROM SNOW
NOV = 3	5 GHZ	211.4	208.1	287.2	267.7	
DAY = 10	10 GHZ	220.5	221.2	299.8	267.1	
HR = 9	18 GHZ	254.6	261.1	279.6	261.7	
MIN = 5	37 GHZ	213.1	214.8	286.5	267.5	
REC # 2,	INCLIN = 5	T(V)	T(H)	HOT LD.	ANT.	REC (B) FRASER
NOV = 3	5 GHZ	208.3	203.9	287.7	268.0	
DAY = 10	10 GHZ	219.3	219.6	300.4	267.3	
HR = 9	18 GHZ	250.9	253.8	279.9	262.4	
MIN = 7	37 GHZ	212.3	213.1	287.1	267.8	
REC # 3,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	REC (C)
NOV = 3	5 GHZ	207.9	203.2	288.5	268.4	
DAY = 10	10 GHZ	215.1	214.0	301.3	267.7	
HR = 9	18 GHZ	248.2	253.2	280.4	263.3	
MIN = 10	37 GHZ	211.7	212.0	288.0	268.2	
REC # 4,	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC (D)
NOV = 3	5 GHZ	206.2	200.2	288.9	268.7	
DAY = 10	10 GHZ	210.8	207.9	301.9	267.9	
HR = 9	18 GHZ	248.2	251.5	280.8	263.9	
MIN = 12	37 GHZ	209.2	208.0	288.6	268.5	
REC # 5,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	REC (E) AIR TEMP=-3C
NOV = 3	5 GHZ	207.5	195.9	289.4	269.0	
DAY = 10	10 GHZ	209.8	201.6	302.4	268.1	
HR = 9	18 GHZ	257.3	254.4	281.1	264.5	
MIN = 14	37 GHZ	204.8	200.3	289.1	268.8	
REC # 6,	INCLIN = 25	T(V)	T(H)	HOT LD.	ANT.	REC (F)
NOV = 3	5 GHZ	207.6	195.3	289.9	269.2	
DAY = 10	10 GHZ	211.0	202.0	303.0	268.4	
HR = 9	18 GHZ	255.4	251.0	281.5	265.0	
MIN = 16	37 GHZ	205.7	201.9	289.7	269.1	
REC # 7,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC (G)
NOV = 3	5 GHZ	208.7	192.6	290.3	269.5	
DAY = 10	10 GHZ	213.5	200.7	303.5	268.6	
HR = 9	18 GHZ	252.6	245.9	281.8	265.6	
MIN = 18	37 GHZ	201.9	190.5	290.2	269.3	
REC # 8,	INCLIN = 35	T(V)	T(H)	HOT LD.	ANT.	REC (H)
NOV = 3	5 GHZ	211.7	190.9	290.8	269.8	
DAY = 10	10 GHZ	213.8	196.4	304.0	268.8	
HR = 9	18 GHZ	252.1	242.1	282.2	266.2	
MIN = 20	37 GHZ	203.9	189.3	290.9	269.6	
REC # 9,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	REC (I) AIR TEMP=-5C 40-42 (FREE HANG)
NOV = 3	5 GHZ	220.7	193.3	291.2	270.0	
DAY = 10	10 GHZ	228.4	207.1	304.5	269.1	
HR = 9	18 GHZ	255.6	241.8	282.5	266.8	
MIN = 22	37 GHZ	204.3	234.6	291.3	269.9	
REC # 10,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	REC (J) TEMP=-5C
NOV = 3	5 GHZ	237.9	194.4	292.7	270.9	
DAY = 10	10 GHZ	234.9	196.6	306.1	269.9	
HR = 9	18 GHZ	258.6	231.6	283.7	268.7	
MIN = 29	37 GHZ	194.5	162.8	293.1	270.8	

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REC # 11,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	REC(K)
MON = 3	5 GHZ	228.8	196.0	293.1	271.2	
DAY = 10	10 GHZ	231.0	206.3	306.5	270.1	
HR = 9	18 GHZ	256.1	242.1	284.0	269.3	
MIN = 31	37 GHZ	205.0	174.1	293.6	271.1	
REC # 12,	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	REC(L)
MON = 3	5 GHZ	233.6	190.6	293.5	271.4	
DAY = 10	10 GHZ	237.5	200.4	306.9	270.4	
HR = 9	18 GHZ	258.2	233.9	284.4	269.8	
MIN = 33	37 GHZ	199.9	166.2	294.1	271.4	
REC # 13,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	REC(M)
MON = 3	5 GHZ	236.1	188.9	293.9	271.7	
DAY = 10	10 GHZ	237.5	199.9	307.3	270.6	
HR = 9	18 GHZ	256.4	230.4	284.7	270.3	
MIN = 35	37 GHZ	192.6	158.7	294.6	271.6	
REC # 14,	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	REC(N)
MON = 3	5 GHZ	235.4	182.4	294.3	271.9	
DAY = 10	10 GHZ	237.0	194.5	307.7	270.8	
HR = 9	18 GHZ	254.8	220.8	285.1	270.9	
MIN = 37	37 GHZ	193.2	145.2	295.1	271.9	
REC # 15,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	REC(O)
MON = 3	5 GHZ	232.0	179.1	294.7	272.2	
DAY = 10	10 GHZ	235.4	195.4	308.1	271.1	
HR = 9	18 GHZ	255.1	224.0	285.4	271.4	
MIN = 39	37 GHZ	188.6	143.9	295.5	272.1	
REC # 16,	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	REC(P)
MON = 3	5 GHZ	132.7	3.9	295.0	272.4	UNSTABLE 5 GHZ BAD GAIN
DAY = 10	10 GHZ	221.8	183.5	308.5	271.3	
HR = 9	18 GHZ	244.9	212.3	285.8	271.9	
MIN = 41	37 GHZ	178.7	145.9	296.0	272.4	
REC # 17,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	REC(Q)
MON = 3	5 GHZ	203.1	151.7	295.4	272.7	5 GHZ GAIN BAD
DAY = 10	10 GHZ	213.3	174.9	308.8	271.5	
HR = 9	18 GHZ	225.5	193.9	286.1	272.4	
MIN = 43	37 GHZ	171.1	142.5	296.5	272.6	
REC # 18,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	REC(R)
MON = 3	5 GHZ	227.1	182.6	296.6	273.5	PREVIOUS 45 DEG NOT CORRECT.
DAY = 10	10 GHZ	233.4	213.2	309.9	272.4	REPLACE FILE J.
HR = 9	18 GHZ	250.5	235.0	287.3	274.2	
MIN = 50	37 GHZ	203.5	181.8	298.0	273.5	
REC # 19,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SECOND PART OF STUDY SITE 5
MON = 3	5 GHZ	310.1	308.5	298.7	275.1	RECS (1-14) RENUMBERED (19-32)
DAY = 10	10 GHZ	259.5	260.3	311.5	274.1	4 IN. DEEP SNOW CHAR. BY BOYNE &
HR = 10	18 GHZ	271.5	275.3	289.7	277.4	ELLERBRUCH. AIR TEMP=-4C
MIN = 4	37 GHZ	220.1	208.7	300.9	275.1	
REC # 20,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	REC(2) 4 IN. SITE
MON = 3	5 GHZ	266.5	261.7	299.6	275.8	AIR TEMP=-2.5C
DAY = 10	10 GHZ	260.0	260.0	312.1	274.9	
HR = 10	18 GHZ	265.7	268.8	291.0	279.0	
MIN = 11	37 GHZ	217.0	211.9	302.2	275.8	

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REC # 21,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	REC (3)	4 IN. SNOW SITE
MON = 3	5 GHZ	266.8	257.8	300.4	276.5		
DAY = 10	10 GHZ	260.7	259.3	312.5	275.8		
HR = 10	18 GHZ	263.9	266.4	292.2	280.4		
MIN = 18	37 GHZ	225.7	218.5	303.4	276.5		
REC # 22,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	REC (4)	4 IN. SNOW SITE
MON = 3	5 GHZ	268.9	257.8	301.4	277.4		AIR TEMP=-.5C
DAY = 10	10 GHZ	258.3	254.7	312.7	276.9		
HR = 10	18 GHZ	264.7	261.3	293.7	282.2		
MIN = 27	37 GHZ	223.8	215.3	304.8	277.4		
REC # 23,	INCLIN = 41	T (V)	T (H)	HOT LD.	ANT.	REC (5)	4 IN. SNOW SITE
MON = 3	5 GHZ	269.4	249.8	301.6	278.0		40-42 (FREE HANG) ANTENNAS
DAY = 10	10 GHZ	259.1	252.2	311.1	278.4		
HR = 10	18 GHZ	267.1	261.5	296.1	284.8		
MIN = 35	37 GHZ	219.0	211.8	306.2	278.1		
REC # 24,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	REC (6)	ALL SNOW REMOVED
MON = 3	5 GHZ	267.9	264.2	302.5	279.1		FROM SITE. AIR TEMP=-.5C
DAY = 10	10 GHZ	260.7	261.5	311.1	279.7		
HR = 10	18 GHZ	264.0	274.8	297.9	286.5		
MIN = 47	37 GHZ	253.8	246.2	307.7	279.1		
REC # 25,	INCLIN = 41	T (V)	T (H)	HOT LD.	ANT.	REC (7)	4 IN. SNOW SITE
MON = 3	5 GHZ	267.3	252.2	303.1	279.8		ALL SNOW REMOVED
DAY = 10	10 GHZ	261.0	255.4	311.1	280.6		ANTENNAS AT 40-42 (FREE HANG)
HR = 10	18 GHZ	268.6	263.5	298.9	287.3		AIR TEMP=-.5C
MIN = 55	37 GHZ	256.2	250.3	308.4	279.7		
REC # 26,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	REC (8)	10.5 IN. SNOW SITE
MON = 3	5 GHZ	265.0	262.8	303.9	281.2		8-10 FROM SNOW
DAY = 10	10 GHZ	255.3	255.6	311.1	282.1		AIR TEMP=0C BOON AT 20 DEG.
HR = 11	18 GHZ	256.3	265.5	300.4	288.2		
MIN = 11	37 GHZ	197.0	191.8	309.5	280.8		
REC # 27,	INCLIN = 10	T (V)	T (H)	HOT LD.	ANT.	REC (9)	10.5 IN. SNOW SITE
MON = 3	5 GHZ	263.1	260.2	304.2	281.6		
DAY = 10	10 GHZ	253.0	251.8	311.1	282.5		
HR = 11	18 GHZ	259.8	261.8	300.8	288.3		
MIN = 16	37 GHZ	193.3	191.2	309.7	281.1		
REC # 28,	INCLIN = 20	T (V)	T (H)	HOT LD.	ANT.	REC (10)	10.5 IN. SNOW SITE
MON = 3	5 GHZ	262.7	257.2	304.7	283.3		AIR TEMP=.5C SITE 6
DAY = 10	10 GHZ	251.9	247.6	311.1	283.9		
HR = 11	18 GHZ	257.0	256.6	301.5	286.9		
MIN = 29	37 GHZ	198.5	195.6	309.6	282.2		
REC # 29,	INCLIN = 30	T (V)	T (H)	HOT LD.	ANT.	REC (11)	10.5 IN. SNOW SITE
MON = 3	5 GHZ	264.0	252.2	304.9	283.7		TEMP=.5C
DAY = 10	10 GHZ	261.0	256.8	311.1	284.2		
HR = 11	18 GHZ	258.7	259.7	301.7	286.8		
MIN = 36	37 GHZ	209.7	207.5	309.7	282.5		
REC # 30,	INCLIN = 40	T (V)	T (H)	HOT LD.	ANT.	REC (12)	10.5 IN. SNOW SITE
MON = 3	5 GHZ	268.7	252.9	304.9	283.8		
DAY = 10	10 GHZ	258.3	244.5	311.1	284.3		
HR = 11	18 GHZ	255.6	246.1	301.8	286.7		
MIN = 40	37 GHZ	209.7	205.2	309.7	282.5		

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REC # 31,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REC(13) 10.5 IN. SNOW SITE
MON = 3	5 GHZ	263.2	260.7	305.0	283.9	ALL SNOW REMOVED
DAY = 10	10 GHZ	253.2	253.8	311.1	284.4	
HR = 11	18 GHZ	270.9	275.0	301.9	286.7	
MIN = 55	37 GHZ	249.6	244.6	309.7	282.6	
REC # 32,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	REC(14) 10.5 IN. SNOW SITE
MON = 3	5 GHZ	261.9	248.6	305.0	283.9	ALL SNOW REMOVED
DAY = 10	10 GHZ	261.9	258.6	311.1	284.4	TEMP=2.5C
HR = 12	18 GHZ	270.2	270.9	301.9	286.7	ANTENNAS AT 40-42 (FREE HANG)
MIN = 2	37 GHZ	260.3	258.1	309.7	282.6	
REC # 33,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	RESCAN SAME AREA AS THIS MORNING
MON = 3	5 GHZ	221.9	219.0	305.0	283.9	RECORDS (A-B). THIS TIME SOME
DAY = 10	10 GHZ	246.1	246.2	311.1	284.4	SURFACE MELT. SWATH SCAN.
HR = 12	18 GHZ	262.2	266.7	301.9	286.7	DATA NOT ON TAPE. REC(AA)
MIN = 12	37 GHZ	251.4	249.7	309.7	282.6	
REC # 34,	INCLIN = 5	T(V)	T(H)	HOT LD.	ANT.	REC(BB)
MON = 3	5 GHZ	217.6	214.5	305.0	283.9	
DAY = 10	10 GHZ	238.4	237.4	311.1	284.4	
HR = 12	18 GHZ	261.0	265.7	301.9	286.7	
MIN = 14	37 GHZ	247.9	246.6	309.7	282.6	
REC # 35,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	REC(CC)
MON = 3	5 GHZ	214.5	210.3	305.0	283.9	
DAY = 10	10 GHZ	233.5	232.4	311.1	284.4	
HR = 12	18 GHZ	259.3	266.3	301.9	286.7	
MIN = 16	37 GHZ	246.0	244.5	309.7	282.6	
REC # 36,	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	REC(DD)
MON = 3	5 GHZ	210.9	205.5	305.0	283.9	
DAY = 10	10 GHZ	235.1	232.2	311.1	284.4	
HR = 12	18 GHZ	260.2	263.9	301.9	286.7	
MIN = 18	37 GHZ	247.6	245.6	309.7	282.6	
REC # 37,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	REC(EE)
MON = 3	5 GHZ	211.7	203.7	305.0	283.9	
DAY = 10	10 GHZ	237.0	233.7	311.1	284.4	
HR = 12	18 GHZ	259.6	264.2	301.9	286.7	
MIN = 19	37 GHZ	249.9	247.8	309.7	282.6	
REC # 38,	INCLIN = 25	T(V)	T(H)	HOT LD.	ANT.	REC(FF)
MON = 3	5 GHZ	214.5	202.3	305.0	283.9	
DAY = 10	10 GHZ	241.9	237.5	311.1	284.4	
HR = 12	18 GHZ	265.1	265.9	301.9	286.7	
MIN = 21	37 GHZ	250.9	245.2	309.7	282.6	
REC # 39,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	REC(GG)
MON = 3	5 GHZ	217.6	202.1	305.0	283.9	
DAY = 10	10 GHZ	244.2	237.0	311.1	284.4	
HR = 12	18 GHZ	261.4	263.3	301.9	286.7	
MIN = 23	37 GHZ	252.3	245.0	309.7	282.6	
REC # 40,	INCLIN = 35	T(V)	T(H)	HOT LD.	ANT.	REC(HH)
MON = 3	5 GHZ	221.2	199.8	305.0	283.9	
DAY = 10	10 GHZ	245.5	235.6	311.1	284.4	
HR = 12	18 GHZ	263.1	262.6	301.9	286.7	
MIN = 25	37 GHZ	253.1	248.7	309.7	282.6	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 41, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	REC(II)
NON = 3	5 GHZ	222.2	202.0	305.0	283.9	ANTENNAS AT 40-42 (FREE HANG)
DAY = 10	10 GHZ	245.8	236.8	311.1	284.4	
HR = 12	18 GHZ	264.3	262.8	301.9	286.7	
MIN = 27	37 GHZ	256.9	249.2	309.7	282.6	
REC # 42, 3	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	REC(JJ)
NON = 3	5 GHZ	236.1	207.5	305.0	283.9	
DAY = 10	10 GHZ	253.4	240.5	311.1	284.4	
HR = 12	18 GHZ	258.6	258.5	301.9	286.7	
MIN = 31	37 GHZ	258.6	246.4	309.7	282.6	
REC # 43, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	REC(KK)
NON = 3	5 GHZ	241.2	205.4	305.0	283.9	
DAY = 10	10 GHZ	254.1	237.5	311.1	284.4	
HR = 12	18 GHZ	256.3	259.5	301.9	286.7	
MIN = 33	37 GHZ	259.5	239.1	309.7	282.6	
REC # 44, 3	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	REC(LL)
NON = 3	5 GHZ	246.3	198.7	305.0	283.9	
DAY = 10	10 GHZ	256.1	239.1	311.1	284.4	
HR = 12	18 GHZ	256.7	257.5	301.9	286.7	
MIN = 35	37 GHZ	260.3	233.0	309.7	282.6	
REC # 45, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	REC(MM)
NON = 3	5 GHZ	248.7	193.5	305.0	283.9	
DAY = 10	10 GHZ	255.6	233.5	311.1	284.4	
HR = 12	18 GHZ	257.0	259.2	301.9	286.7	
MIN = 37	37 GHZ	258.3	234.7	309.7	282.6	
REC # 46, 3	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	REC(NN)
NON = 3	5 GHZ	246.9	181.0	305.0	283.9	
DAY = 10	10 GHZ	253.8	219.3	311.1	284.4	
HR = 12	18 GHZ	255.3	252.5	301.9	286.7	
MIN = 39	37 GHZ	256.9	226.1	309.7	282.6	
REC # 47, 3	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	REC(OO)
NON = 3	5 GHZ	244.3	174.2	305.0	283.9	
DAY = 10	10 GHZ	249.3	217.5	311.1	284.4	
HR = 12	18 GHZ	254.0	252.3	301.9	286.7	
MIN = 41	37 GHZ	255.6	224.2	309.7	282.6	
REC # 48, 3	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	REC(PP)
NON = 3	5 GHZ	232.2	158.5	305.0	283.9	RESCAN OF SAME AREA AS THIS MORNING
DAY = 10	10 GHZ	234.0	204.0	311.1	284.4	TIME APPROXIMATED
HR = 12	18 GHZ	246.1	244.5	301.9	286.7	
MIN = 43	37 GHZ	251.8	231.2	309.7	282.6	
REC # 49, 3	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	REC(QQ)
NON = 3	5 GHZ	216.7	149.9	305.0	283.9	LAST RECORD
DAY = 10	10 GHZ	210.5	179.7	311.1	284.4	TIME APPROXIMATED.
HR = 12	18 GHZ	237.2	235.2	301.9	286.7	
MIN = 45	37 GHZ	247.0	232.1	309.7	282.6	

END OF RUN.

1978 SHMR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 3/15/78

REC # 1, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	LOVELAND PASS (SITE 1) 8 FT. DEEP SPOT SCAN OF AREA LOOKING NORTH OF TRUCK. SNOW DEPTH FAIRLY LEVEL. NO 5 GHZ DATA TODAY.
MON = 15	0 GHZ	0.0	0.0	289.6	273.2	
DAY = 15	10 GHZ	254.4	255.6	311.3	272.1	
HR = 15	18 GHZ	278.3	279.2	285.0	272.6	
MIN = 13	37 GHZ	234.2	232.4	295.1	272.2	
REC # 2, 3	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	DEPTH APPROX. 8 FT. SNOW LEVEL 5 GHZ STILL DOWN
MON = 15	0 GHZ	0.0	0.0	290.4	273.3	
DAY = 15	10 GHZ	252.5	252.4	311.4	272.2	
HR = 15	18 GHZ	272.4	274.8	285.3	272.9	
MIN = 18	37 GHZ	226.5	222.0	295.5	272.3	
REC # 3, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	DEPTH APPROX. 8 FT. SNOW LEVEL
MON = 15	0 GHZ	0.0	0.0	291.2	273.3	
DAY = 15	10 GHZ	252.4	250.4	311.4	272.3	
HR = 15	18 GHZ	270.7	268.2	285.7	273.1	
MIN = 23	37 GHZ	232.5	227.3	296.0	272.3	
REC # 4, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	8 FT. DEEP 5 GHZ STILL NOT WORKING
MON = 15	0 GHZ	0.0	0.0	292.1	273.4	
DAY = 15	10 GHZ	254.4	247.4	311.4	272.4	
HR = 15	18 GHZ	270.8	267.4	286.0	273.3	
MIN = 28	37 GHZ	240.6	231.0	296.5	272.4	
REC # 5, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	8 FT. DEEP 40-42 (FREE HANG)
MON = 15	0 GHZ	0.0	0.0	296.3	273.2	
DAY = 15	10 GHZ	257.6	247.5	310.8	272.5	
HR = 15	18 GHZ	274.6	264.5	287.3	272.9	
MIN = 33	37 GHZ	245.7	231.2	298.5	272.2	
REC # 6, 3	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	8 FT. DEEP AIR TEMP=-15C
MON = 15	0 GHZ	0.0	0.0	298.5	273.3	
DAY = 15	10 GHZ	259.1	244.6	310.7	272.7	
HR = 15	18 GHZ	273.4	259.6	288.1	273.2	
MIN = 53	37 GHZ	246.3	223.6	299.6	272.3	
REC # 7, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 15	0 GHZ	0.0	0.0	298.8	273.3	
DAY = 15	10 GHZ	259.0	242.6	310.7	272.7	
HR = 16	18 GHZ	295.7	278.2	288.2	273.2	
MIN = 0	37 GHZ	245.2	226.0	299.8	272.3	
REC # 8, 3	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	
MON = 15	0 GHZ	0.0	0.0	298.8	273.3	
DAY = 15	10 GHZ	258.5	244.8	310.7	272.7	
HR = 16	18 GHZ	273.2	255.4	288.2	273.2	
MIN = 8	37 GHZ	245.5	226.4	299.8	272.3	
REC # 9, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	8 FT. DEEP AIR TEMP=-17.5C 18 GHZ DATA NOT ON PAGE 37 GHZ DATA NOT ON PAGE
MON = 15	0 GHZ	0.0	0.0	298.8	273.3	
DAY = 15	10 GHZ	256.4	228.6	310.7	272.7	
HR = 16	0 GHZ	0.0	0.0	288.2	273.2	
MIN = 21	0 GHZ	0.0	0.0	299.8	272.3	
REC # 10, 3	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	TEMP BETWEEN -17.5C AND -20C
MON = 15	0 GHZ	0.0	0.0	298.8	273.3	
DAY = 15	10 GHZ	255.0	236.0	310.7	272.7	
HR = 16	18 GHZ	270.9	242.8	288.2	273.2	
MIN = 29	37 GHZ	240.5	215.8	299.8	272.3	

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REC # 11,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.
MON = 3	0 GHZ	0.0	0.0	298.8	273.3
DAY = 15	10 GHZ	256.4	239.2	310.7	272.7
HR = 16	18 GHZ	271.3	252.8	288.2	273.2
MIN = 38	37 GHZ	239.4	218.8	299.8	272.3
REC # 12,	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.
MON = 3	0 GHZ	0.0	0.0	298.8	273.3
DAY = 15	10 GHZ	255.6	237.5	310.7	272.7
HR = 16	18 GHZ	269.8	252.5	288.2	273.2
MIN = 45	37 GHZ	240.5	218.5	299.8	272.3
REC # 13,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.
MON = 3	0 GHZ	0.0	0.0	298.8	273.3
DAY = 15	10 GHZ	253.9	235.9	310.7	272.7
HR = 16	18 GHZ	264.6	253.8	288.2	273.2
MIN = 57	37 GHZ	240.4	219.8	299.8	272.3

END OF RUN.

HIGH WINDS -
ANTENNA SWING 5-10 DEGREE
SITE 1 LOVELAND PASS
8 FT. DEEP

LAST REC. 5 GHZ DOWN.

1978 SNMR SNOW EXPERIMENT - BRIGHTNESS TEMPERATURES FOR 3/16/78

REC # 1, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	LOVELAND PASS SITE 2 BRIGHT SUN SPOT SCAN 5 GHZ NOT WORKING IN RECS 1-30. 36 IN. DEEP FOR 37 GHZ
NON = 16	0 GHZ	0.0	0.0	285.6	265.1	
DAY = 9	10 GHZ	247.7	248.9	299.8	262.4	
HR = 0	18 GHZ	277.3	283.9	276.7	263.5	
HIW = 0	37 GHZ	226.1	222.9	285.4	264.3	
REC # 2, 3	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN AIR TEMP=-14C SITE 2 ROAD BACK OF TRUCK
NON = 16	0 GHZ	0.0	0.0	287.8	266.4	
DAY = 9	10 GHZ	247.1	247.8	301.9	263.8	
HR = 7	18 GHZ	281.4	283.5	278.4	265.5	
HIW = 7	37 GHZ	230.9	223.2	287.8	265.8	
REC # 3, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
NON = 16	0 GHZ	0.0	0.0	289.3	267.3	
DAY = 9	10 GHZ	240.4	239.2	303.3	264.7	
HR = 12	18 GHZ	276.6	278.1	279.5	266.8	
HIW = 12	37 GHZ	232.9	227.2	289.4	266.8	
REC # 4, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	AIR TEMP=-14C BRIGHT SUN
NON = 16	0 GHZ	0.0	0.0	291.0	268.4	
DAY = 9	10 GHZ	241.8	235.3	304.8	265.9	
HR = 18	18 GHZ	274.1	270.5	280.9	268.4	
HIW = 18	37 GHZ	232.5	225.8	291.3	268.0	
REC # 5, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	ANTENNAS AT 40-42 (FREE HANG)
NON = 16	0 GHZ	0.0	0.0	293.5	270.2	
DAY = 9	10 GHZ	247.3	229.8	307.2	267.8	
HR = 28	18 GHZ	273.6	263.7	283.0	270.9	
HIW = 28	37 GHZ	231.8	222.4	294.2	270.0	
REC # 6, 3	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	COULD NOT READ 37 GHZ H
NON = 16	0 GHZ	0.0	0.0	298.1	274.1	
DAY = 9	10 GHZ	249.4	228.3	311.1	271.7	
HR = 50	18 GHZ	268.8	256.5	287.3	276.0	
HIW = 50	37 GHZ	229.0	212.3	299.8	274.1	
REC # 7, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	AIR TEMP=-13C
NON = 16	0 GHZ	0.0	0.0	299.5	275.5	
DAY = 9	10 GHZ	252.8	226.5	312.2	273.0	
HR = 58	18 GHZ	267.2	250.0	288.7	277.7	
HIW = 58	37 GHZ	231.1	214.2	301.5	275.5	
REC # 8, 3	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	
NON = 16	0 GHZ	0.0	0.0	300.6	276.8	
DAY = 10	10 GHZ	254.1	225.6	313.0	274.3	
HR = 6	18 GHZ	265.7	251.7	290.1	279.2	
HIW = 6	37 GHZ	230.6	218.5	303.0	276.9	
REC # 9, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	TEMP=-12C
NON = 16	0 GHZ	0.0	0.0	301.5	278.2	
DAY = 10	10 GHZ	254.2	226.1	313.6	275.6	
HR = 14	18 GHZ	264.6	242.5	291.4	280.7	
HIW = 14	37 GHZ	230.9	208.3	304.4	278.3	
REC # 10, 3	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	HIGH WIND . ANTENNA PACKAGE SWINGING 5-10 DEGREES. BRIGHT SUN TEMP=-12C
NON = 16	0 GHZ	0.0	0.0	302.7	280.5	
DAY = 10	10 GHZ	253.9	210.5	314.2	277.7	
HR = 28	18 GHZ	264.6	220.0	293.4	283.2	
HIW = 28	37 GHZ	228.0	201.7	306.3	280.5	

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REC # 11, 3	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	300.5	282.0	STILL HIGH WIND
DAY = 16	10 GHZ	249.5	215.4	311.1	278.8	PACKAGE STILL SWINGING
HR = 10	18 GHZ	257.0	227.4	293.5	283.8	
MIN = 33	37 GHZ	224.9	195.8	305.5	281.8	
REC # 12, 3	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	300.7	282.9	BRIGHT SUN
DAY = 16	10 GHZ	245.8	199.3	311.1	279.6	
HR = 10	18 GHZ	256.6	224.8	294.2	284.7	
MIN = 39	37 GHZ	223.4	186.2	306.2	282.7	
REC # 13, 3	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	301.2	284.5	WIND STILL SWINGING PACKAGE
DAY = 16	10 GHZ	239.5	201.6	311.1	281.0	END OF SPOT SCAN
HR = 10	18 GHZ	238.0	205.7	295.6	286.3	
MIN = 50	37 GHZ	211.3	177.5	307.3	284.3	
REC # 14, 3	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	301.6	285.6	SKY CAL
DAY = 16	10 GHZ	4.4	5.6	311.1	282.0	
HR = 10	18 GHZ	14.5	10.7	296.5	287.3	
MIN = 58	37 GHZ	8.7	26.5	308.0	285.3	
REC # 15, 3	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	302.0	287.2	LOVELAND PASS SITE 3 NEAR TRUCK
DAY = 16	10 GHZ	259.3	225.9	311.1	283.3	6 FT. DEEP BRIGHT SUN
HR = 11	18 GHZ	254.2	236.8	297.9	288.7	WINDY IN GUSTS MOVING PACKAGE
MIN = 10	37 GHZ	230.2	205.2	308.9	286.8	
REC # 16, 3	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	302.3	288.1	
DAY = 16	10 GHZ	253.1	223.2	311.1	284.2	
HR = 11	18 GHZ	256.2	235.9	298.8	289.6	
MIN = 18	37 GHZ	235.4	211.1	309.5	287.6	
REC # 17, 3	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	302.6	289.0	WIND MOVING PACKAGE
DAY = 16	10 GHZ	256.6	224.8	311.1	284.9	
HR = 11	18 GHZ	260.4	235.3	299.6	290.4	
MIN = 26	37 GHZ	239.3	214.3	310.0	288.5	
REC # 18, 3	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	
MON = 0	0 GHZ	0.0	0.0	302.9	290.0	TEMP=-10C WIND STILL BLOWING
DAY = 16	10 GHZ	258.6	233.7	311.1	285.7	BRIGHT SUN
HR = 11	18 GHZ	261.2	232.7	300.6	291.2	
MIN = 36	37 GHZ	242.0	216.8	310.5	289.4	
REC # 19, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	303.2	290.8	WIND NOT QUITE SO HARD
DAY = 16	10 GHZ	258.1	238.6	311.1	286.4	PACKAGE MOVEMENT SLOWER
HR = 11	18 GHZ	262.7	245.3	301.4	291.9	
MIN = 45	37 GHZ	243.8	228.2	310.8	290.1	
REC # 20, 3	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	303.4	291.5	TEMP=-11C
DAY = 16	10 GHZ	258.9	234.0	311.1	287.0	
HR = 11	18 GHZ	265.7	245.0	302.2	292.5	
MIN = 54	37 GHZ	245.2	226.4	311.1	290.7	

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REC # 21,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	TEMP=-10C
MON = 3	0 GHZ	0.0	0.0	303.6	292.1	
DAY = 16	10 GHZ	258.7	240.9	311.1	287.5	
HR = 12	18 GHZ	266.3	247.1	302.9	292.9	
MIN = 2	37 GHZ	245.0	229.0	311.3	291.2	
REC # 22,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	TEMP=-10C
MON = 3	0 GHZ	0.0	0.0	303.7	291.5	
DAY = 16	10 GHZ	258.0	243.3	311.1	286.8	
HR = 12	18 GHZ	263.5	247.2	303.9	292.8	
MIN = 9	37 GHZ	245.6	231.1	310.2	290.8	
REC # 23,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	ANTENNAS AT 40-42 (FREE HANG)
MON = 3	0 GHZ	0.0	0.0	303.8	291.9	
DAY = 16	10 GHZ	257.8	245.3	311.1	287.1	
HR = 12	18 GHZ	259.2	248.4	304.4	293.0	
MIN = 15	37 GHZ	243.9	232.6	310.3	291.1	
REC # 24,	INCLIN = 35	T(V)	T(H)	HOT LD.	ANT.	TEMP=-11C
MON = 3	0 GHZ	0.0	0.0	304.3	293.3	
DAY = 16	10 GHZ	259.0	251.2	311.1	288.1	
HR = 12	18 GHZ	260.3	257.4	305.8	293.6	
MIN = 40	37 GHZ	244.1	235.7	310.5	292.1	
REC # 25,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	TEMP=-10C STILL SITE 3 LOVELAND
MON = 3	0 GHZ	0.0	0.0	304.4	293.6	
DAY = 16	10 GHZ	257.0	253.2	311.1	288.4	
HR = 12	18 GHZ	263.0	259.7	306.2	293.7	
MIN = 47	37 GHZ	241.7	237.4	310.6	292.3	
REC # 26,	INCLIN = 25	T(V)	T(H)	HOT LD.	ANT.	TEMP=-9C
MON = 3	0 GHZ	0.0	0.0	304.5	293.9	
DAY = 16	10 GHZ	255.5	251.3	311.1	288.6	
HR = 12	18 GHZ	258.4	257.8	306.4	293.7	
MIN = 53	37 GHZ	236.8	231.9	310.6	292.5	
REC # 27,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	NOT SURE ABOUT 10 GHZ V
MON = 3	0 GHZ	0.0	0.0	304.6	294.4	
DAY = 16	10 GHZ	254.5	249.8	311.1	289.0	
HR = 13	18 GHZ	258.2	256.0	306.8	293.6	
MIN = 5	37 GHZ	232.0	228.7	310.7	292.7	
REC # 28,	INCLIN = 15	T(V)	T(H)	HOT LD.	ANT.	TEMP=-9C
MON = 3	0 GHZ	0.0	0.0	304.7	294.7	
DAY = 16	10 GHZ	253.0	251.9	311.1	289.2	
HR = 13	18 GHZ	252.8	256.5	306.9	293.6	
MIN = 11	37 GHZ	229.2	229.5	310.7	292.8	
REC # 29,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	TEMP=-9C
MON = 3	0 GHZ	0.0	0.0	304.8	295.0	
DAY = 16	10 GHZ	253.9	253.8	311.1	289.4	
HR = 13	18 GHZ	243.8	246.5	307.0	293.4	
MIN = 19	37 GHZ	224.4	224.4	310.7	292.9	
REC # 30,	INCLIN = 5	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	304.8	295.3	
DAY = 16	10 GHZ	256.5	256.4	311.1	289.5	
HR = 13	18 GHZ	242.5	249.6	307.1	293.2	
MIN = 26	37 GHZ	223.7	224.6	310.8	293.0	

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REC # 31,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	REJUICED SYSTEM - 5 GHZ WORKING
MON = 3	0 GHZ	0.0	0.0	304.8	295.9	
DAY = 16	10 GHZ	253.3	252.7	311.1	289.8	
HR = 13	18 GHZ	245.3	245.6	306.7	292.6	
MIN = 35	37 GHZ	213.3	211.8	310.7	293.0	
REC # 32,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	LOVELAND PASS SITE 1 RESCAN OF SITE 1 WITH 5 GHZ WORKING TEMP=-9C
MON = 3	5 GHZ	267.5	246.0	304.9	296.4	
DAY = 16	10 GHZ	254.7	236.3	311.1	290.2	
HR = 14	18 GHZ	241.7	225.2	306.7	291.6	
MIN = 0	37 GHZ	244.5	226.1	310.7	292.9	
REC # 33,	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN HIGH WINDS TEMP=-9C
MON = 3	5 GHZ	268.0	247.2	305.0	296.5	
DAY = 16	10 GHZ	256.1	238.3	311.1	290.2	
HR = 14	18 GHZ	248.0	232.9	306.6	291.2	
MIN = 8	37 GHZ	245.8	226.9	310.7	292.9	
REC # 34,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	SAME
MON = 3	5 GHZ	268.9	239.6	305.0	296.5	
DAY = 16	10 GHZ	255.3	225.1	311.1	290.2	
HR = 14	18 GHZ	248.2	225.2	306.5	290.9	
MIN = 15	37 GHZ	249.4	226.5	310.6	292.8	
REC # 35,	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	SAME
MON = 3	5 GHZ	270.4	241.0	305.0	296.4	
DAY = 16	10 GHZ	257.4	232.7	311.1	290.2	
HR = 14	18 GHZ	247.2	225.6	306.4	290.4	
MIN = 25	37 GHZ	247.9	225.4	310.6	292.6	
REC # 36,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	SAME
MON = 3	5 GHZ	270.9	243.9	305.0	296.3	
DAY = 16	10 GHZ	258.8	227.8	311.1	290.1	
HR = 14	18 GHZ	249.3	225.5	306.3	290.0	
MIN = 34	37 GHZ	248.3	222.0	310.5	292.4	
REC # 37,	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	TEMP=-9C BRIGHT SUN
MON = 3	5 GHZ	271.3	245.8	305.0	296.1	
DAY = 16	10 GHZ	260.1	230.4	311.1	290.0	
HR = 14	18 GHZ	252.1	227.5	306.2	289.6	
MIN = 41	37 GHZ	249.0	226.6	310.5	292.2	
REC # 38,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	270.9	248.2	305.0	295.9	
DAY = 16	10 GHZ	261.1	236.9	311.1	289.9	
HR = 14	18 GHZ	251.4	228.3	306.1	289.2	
MIN = 47	37 GHZ	249.2	229.0	310.5	292.0	
REC # 39,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	270.2	250.5	305.0	295.7	
DAY = 16	10 GHZ	261.6	239.3	311.1	289.8	
HR = 14	18 GHZ	250.9	232.9	306.0	288.8	
MIN = 54	37 GHZ	251.8	235.8	310.4	291.8	
REC # 40,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	LOVELAND PASS SITE 1 RECS (1-13) RENUMBERED (40-52) 40-42 (FREE HANG) REC (1)
MON = 3	5 GHZ	268.2	253.0	304.9	295.4	
DAY = 16	10 GHZ	259.7	246.6	311.1	289.6	
HR = 15	18 GHZ	249.2	239.8	305.8	288.3	
MIN = 2	37 GHZ	249.8	237.7	310.4	291.5	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 41, 3	INCLIN = 30					
NON = 16	5 GHZ	265.6	255.3	304.6	292.3	REC(2)
DAY = 16	10 GHZ	256.6	248.8	311.1	287.9	
HR = 15	18 GHZ	248.4	244.7	304.6	285.5	
MIN = 12	37 GHZ	247.7	238.2	309.9	289.4	
REC # 42, 3	INCLIN = 20					
NON = 16	5 GHZ	263.3	257.4	304.6	292.1	REC(3) TEMP=-8C
DAY = 16	10 GHZ	253.7	248.6	311.1	287.8	
HR = 15	18 GHZ	245.7	245.1	304.5	285.3	
MIN = 17	37 GHZ	243.9	242.7	309.9	289.3	
REC # 43, 3	INCLIN = 10					
NON = 16	5 GHZ	261.2	257.3	304.6	291.9	REC(4) HIGH WIND BRIGHT SUN
DAY = 16	10 GHZ	251.7	249.2	311.1	287.6	
HR = 15	18 GHZ	246.8	247.5	304.4	285.0	
MIN = 25	37 GHZ	244.0	244.5	309.8	289.0	
REC # 44, 3	INCLIN = 0					
NON = 16	5 GHZ	266.2	263.6	304.6	291.7	REC(5) TEMP=-9C SITE 1
DAY = 16	10 GHZ	255.9	254.8	311.1	287.5	
HR = 15	18 GHZ	247.3	252.6	304.3	284.7	
MIN = 32	37 GHZ	242.9	245.5	309.8	288.9	
REC # 45, 3	INCLIN = 0					
NON = 16	5 GHZ	261.2	258.1	304.6	291.6	REC(6) LOVELAND PASS SITE 3
DAY = 16	10 GHZ	255.1	254.9	311.1	287.5	DEPTH 6 FT.
HR = 15	18 GHZ	262.2	266.3	304.3	284.6	
MIN = 37	37 GHZ	241.3	245.0	309.8	288.8	
REC # 46, 3	INCLIN = 10					
NON = 16	5 GHZ	260.2	256.2	304.6	291.5	REC(7) SITE 3 HIGH WINDS
DAY = 16	10 GHZ	251.1	249.0	311.1	287.4	TEMP=-9C
HR = 15	18 GHZ	257.7	261.8	304.2	284.4	
MIN = 45	37 GHZ	236.3	237.8	309.8	288.7	
REC # 47, 3	INCLIN = 20					
NON = 16	5 GHZ	263.8	256.4	304.6	291.4	REC(8) HIGH WINDS
DAY = 16	10 GHZ	253.2	248.5	311.1	287.3	BLOWING SNOW AT TIMES
HR = 15	18 GHZ	261.1	258.2	304.2	284.3	SUN STARTING TO SET
MIN = 55	37 GHZ	238.3	234.3	309.7	288.6	SHADOW OVER TARGET AREA TEMP=-9C
REC # 48, 3	INCLIN = 30					
NON = 16	5 GHZ	266.7	255.2	304.6	291.4	REC(9) SITE 3
DAY = 16	10 GHZ	256.5	248.7	311.1	287.3	EXTREMELY STRONG GUSTS
HR = 16	18 GHZ	262.7	258.2	304.2	284.2	
MIN = 2	37 GHZ	243.3	234.3	309.7	288.6	
REC # 49, 3	INCLIN = 41					
NON = 16	5 GHZ	268.6	254.5	304.6	291.4	REC(10) WINDY TEMP=-10C
DAY = 16	10 GHZ	257.0	244.2	311.1	287.3	ANTENNAS AT 40-42 (FREE HANG)
HR = 16	18 GHZ	263.2	253.5	304.2	284.2	
MIN = 8	37 GHZ	242.5	231.0	309.7	288.6	
REC # 50, 3	INCLIN = 50					
NON = 16	5 GHZ	272.1	243.4	304.6	291.4	REC(11) TEMP=-10C
DAY = 16	10 GHZ	259.3	217.7	311.1	287.3	
HR = 16	18 GHZ	265.4	232.0	304.2	284.2	
MIN = 18	37 GHZ	244.6	213.6	309.7	288.6	

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REC # 51,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	REC (12)	TEMP=-10C
MON = 3	5 GHZ	268.2	237.3	304.6	291.4		
DAY = 16	10 GHZ	253.2	210.7	311.1	287.3		
HR = 16	18 GHZ	259.2	225.2	304.2	284.2		
MIN = 27	37 GHZ	241.5	210.1	309.7	288.6		
REC # 52,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	REC (13)	LAST REC
MON = 3	5 GHZ	267.9	243.5	304.6	291.4	SAME	
DAY = 16	10 GHZ	254.4	231.9	311.1	287.3		
HR = 16	18 GHZ	259.9	246.7	304.2	284.2		
MIN = 38	37 GHZ	241.4	218.2	309.7	288.6		
END OF RUN.							

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REC # 1, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	LOVELAND PASS, RECS 1-3 1 = X BAND ECCOSORB TEMP=-5C 2 = C BAND ECCOSORB TEMP=-5C 3 = 18 & 37 ECCOSORB TEMP=-5C
NOV = 17	5 GHZ	270.6	267.9	285.6	273.2	
DAY = 17	10 GHZ	260.1	261.4	295.8	271.3	
HR = 9	18 GHZ	285.2	290.4	283.3	274.1	
HTW = 0	37 GHZ	260.7	255.6	290.5	273.8	
REC # 4, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	LOVELAND PASS SITE 2 35 IN. DEEP 18-37, 39 C BAND, & 43 X BAND. BRIGHT SUN. TEMP=-5C BAD DRIFT IN C BAND GAIN
NOV = 17	5 GHZ	250.4	317.2	293.0	276.1	
DAY = 17	10 GHZ	244.4	329.3	303.9	274.8	
HR = 9	18 GHZ	265.3	357.0	289.3	278.5	
HTW = 20	37 GHZ	223.6	346.2	299.4	277.7	
REC # 5, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	ANTENNAS AT 40-42 (FREE HANG)
NOV = 17	5 GHZ	253.6	233.7	295.5	277.4	
DAY = 17	10 GHZ	245.5	225.9	306.4	276.3	
HR = 9	18 GHZ	259.4	249.3	291.6	280.2	
HTW = 28	37 GHZ	228.5	212.3	302.3	279.3	
REC # 6, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	TEMP=-3.5C
NOV = 17	5 GHZ	253.7	239.2	299.9	280.4	
DAY = 17	10 GHZ	247.9	235.7	310.3	279.4	
HR = 9	18 GHZ	260.9	250.6	296.4	283.9	
HTW = 45	37 GHZ	229.7	216.6	307.2	282.6	
REC # 7, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-3C
NOV = 17	5 GHZ	253.6	246.3	301.9	282.4	
DAY = 17	10 GHZ	246.0	245.2	311.6	281.2	
HR = 9	18 GHZ	264.0	256.1	299.1	286.1	
HTW = 55	37 GHZ	230.2	222.3	309.3	284.6	
REC # 8, 3	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN TEMP=-3C LITTLE OR NO WIND
NOV = 17	5 GHZ	254.0	249.5	302.8	283.7	
DAY = 17	10 GHZ	251.2	248.2	312.1	282.4	
HR = 10	18 GHZ	254.0	253.6	300.7	287.5	
HTW = 1	37 GHZ	230.9	224.0	310.3	285.8	
REC # 9, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=-2C
NOV = 17	5 GHZ	252.2	245.1	303.7	285.0	
DAY = 17	10 GHZ	256.9	256.7	312.4	283.5	
HR = 10	18 GHZ	263.7	267.1	302.2	288.8	
HTW = 7	37 GHZ	232.1	224.5	311.0	287.0	
REC # 10, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	TEMP=-3.5C
NOV = 17	5 GHZ	258.1	229.1	304.7	288.9	
DAY = 17	10 GHZ	250.8	227.5	311.2	286.7	
HR = 10	18 GHZ	258.8	245.1	306.2	292.5	
HTW = 16	37 GHZ	234.6	219.7	311.6	290.3	
REC # 11, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN
NOV = 17	5 GHZ	261.8	218.1	305.2	290.1	
DAY = 17	10 GHZ	250.8	208.5	311.2	287.7	
HR = 10	18 GHZ	253.7	223.9	307.6	293.7	
HTW = 25	37 GHZ	224.1	193.9	312.0	291.4	
REC # 12, 3	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	TEMP=-1C
NOV = 17	5 GHZ	252.3	200.8	305.4	290.5	
DAY = 17	10 GHZ	247.1	198.8	311.1	288.0	
HR = 10	18 GHZ	239.5	206.9	308.0	294.0	
HTW = 32	37 GHZ	224.1	193.9	312.1	291.7	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	LAST RECORD ESTIMATED TIME	SKY CAL
13, 3	140	3.2	5.1	305.4	290.4		
HOM = 3	5 GHZ	5.8	5.2	311.1	288.0		
DAY = 17	10 GHZ	21.1	22.8	307.9	293.9		
HR = 10	18 GHZ	11.3	25.3	312.1	291.6		
MIN = 40	37 GHZ						

END OF RUN.

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REC # 1,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	LOCATION FRASER BRIGHT SUN TEMP=5C
MON = 3	5 GHZ	253.8	251.0	216.6	279.9	
DAY = 21	10 GHZ	259.4	259.8	296.5	275.4	
HR = 10	18 GHZ	279.6	285.9	291.2	273.1	
MIN = 48	37 GHZ	255.4	255.6	293.9	281.0	
REC # 2,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C
MON = 3	5 GHZ	253.2	249.8	289.3	281.8	
DAY = 21	10 GHZ	255.4	256.7	298.6	277.5	
HR = 10	18 GHZ	281.7	284.2	293.8	276.4	
MIN = 58	37 GHZ	258.3	253.4	296.4	282.9	
REC # 3,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=4C
MON = 3	5 GHZ	254.0	252.5	294.6	285.7	
DAY = 21	10 GHZ	255.6	256.4	302.7	281.8	
HR = 11	18 GHZ	283.5	289.0	298.9	282.9	
MIN = 20	37 GHZ	251.9	244.5	301.3	286.8	
REC # 4,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C BRIGHT SUN
MON = 3	5 GHZ	255.0	252.3	296.8	287.3	
DAY = 21	10 GHZ	257.8	258.7	304.3	283.6	
HR = 11	18 GHZ	279.2	284.2	300.9	285.5	
MIN = 30	37 GHZ	248.1	240.8	303.3	288.4	
REC # 5,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C
MON = 3	5 GHZ	253.7	250.2	298.5	288.5	
DAY = 21	10 GHZ	259.2	260.5	305.5	285.0	
HR = 11	18 GHZ	276.5	279.6	302.5	287.5	
MIN = 38	37 GHZ	245.4	238.8	304.8	289.7	
REC # 6,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	37 GHZ DATA NOT COPIED
MON = 3	5 GHZ	253.3	250.8	299.8	289.6	
DAY = 21	10 GHZ	261.4	261.8	306.6	286.1	
HR = 11	18 GHZ	273.5	278.8	303.8	289.1	
MIN = 45	0 GHZ	0.0	0.0	306.0	290.7	
REC # 7,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C
MON = 3	5 GHZ	252.2	253.6	301.1	290.6	
DAY = 21	10 GHZ	262.1	262.5	307.5	287.2	
HR = 11	18 GHZ	272.1	277.3	305.0	290.7	
MIN = 52	37 GHZ	241.7	235.5	307.1	291.7	
REC # 8,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C
MON = 3	5 GHZ	252.6	249.2	302.4	291.7	
DAY = 21	10 GHZ	263.3	263.6	308.5	288.3	
HR = 12	18 GHZ	274.6	279.0	306.3	292.3	
MIN = 0	37 GHZ	240.9	237.4	308.4	292.7	
REC # 9,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C
MON = 3	5 GHZ	251.3	248.2	303.8	292.8	
DAY = 21	10 GHZ	265.4	265.3	309.6	289.6	
HR = 12	18 GHZ	276.5	279.9	307.6	294.0	
MIN = 9	37 GHZ	241.0	235.9	309.6	293.8	
REC # 10,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C
MON = 3	5 GHZ	252.3	247.9	304.7	293.6	
DAY = 21	10 GHZ	265.3	265.7	310.2	290.4	
HR = 12	18 GHZ	247.6	252.6	308.4	295.0	
MIN = 15	37 GHZ	238.6	235.9	310.4	294.5	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	TEMP
11	3	21	12	24	0	252.9	249.3	305.9	294.6	TEMP=6C
					5 GHZ	266.2	267.0	311.1	291.4	
					18 GHZ	243.9	250.0	309.5	296.5	
					37 GHZ	238.0	234.9	311.5	295.5	
12	3	21	12	32	0	259.0	252.4	306.9	295.5	TEMP=5.5C
					5 GHZ	267.3	268.1	311.8	292.3	
					18 GHZ	253.7	260.7	310.4	297.6	
					37 GHZ	236.9	235.2	312.3	296.4	
13	3	21	12	38	0	251.4	245.7	307.5	296.1	TEMP=6C
					5 GHZ	267.9	267.8	312.3	293.0	
					18 GHZ	242.5	248.7	311.0	298.4	
					37 GHZ	236.9	234.7	312.9	296.9	
14	3	21	12	45	0	253.3	246.3	308.2	296.8	
					5 GHZ	268.6	269.0	312.8	293.7	
					18 GHZ	245.2	250.6	311.7	299.2	
					37 GHZ	235.9	234.0	313.5	297.6	
15	3	21	12	54	0	252.8	245.8	309.0	297.7	37 GHZ DATA NOT COPIED
					5 GHZ	268.0	268.8	313.3	294.5	
					18 GHZ	245.6	251.7	312.4	300.1	
					0 GHZ	0.0	0.0	314.2	298.3	
16	3	21	13	0	0	252.2	245.1	309.4	298.2	TEMP=4C
					5 GHZ	268.2	269.5	313.6	295.0	
					18 GHZ	248.6	251.0	312.8	300.6	
					37 GHZ	234.4	236.5	314.5	298.7	
17	3	21	13	12	0	251.9	244.7	310.1	299.1	TEMP=4C
					5 GHZ	269.0	268.8	314.1	295.8	
					18 GHZ	248.6	253.4	313.4	301.4	
					37 GHZ	233.4	234.4	315.1	299.5	
18	3	21	13	20	0	252.6	244.8	310.5	299.7	TEMP=4C
					5 GHZ	268.5	269.3	314.3	296.3	
					18 GHZ	251.2	255.8	313.8	301.8	
					37 GHZ	233.5	233.1	315.4	300.0	
19	3	21	13	27	0	250.9	243.4	310.7	300.1	TEMP=4C
					5 GHZ	268.5	269.3	314.4	296.7	
					18 GHZ	251.6	256.0	314.0	302.0	
					37 GHZ	232.5	233.2	315.6	300.4	
20	3	21	13	34	0	250.8	242.5	310.8	300.5	TEMP=4.5C
					5 GHZ	267.5	268.2	314.5	297.1	
					18 GHZ	251.7	257.9	314.1	302.1	
					37 GHZ	232.1	233.6	315.7	300.7	

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REC # 21,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	247.7	239.9	307.3	300.7	
DAY = 21	10 GHZ	264.1	264.2	311.6	295.7	
HR = 13	18 GHZ	255.9	257.4	310.5	295.9	
MIN = 44	37 GHZ	231.9	231.1	312.9	300.4	
REC # 22,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	TEMP=6C
MON = 3	5 GHZ	247.0	239.2	307.3	301.0	
DAY = 21	10 GHZ	262.6	263.7	311.6	295.9	
HR = 13	18 GHZ	251.2	256.4	310.6	296.0	
MIN = 50	37 GHZ	231.7	233.3	312.9	300.6	
REC # 23,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	253.1	244.8	307.4	301.5	
DAY = 21	10 GHZ	266.4	267.2	311.6	296.3	
HR = 14	18 GHZ	253.7	259.6	310.7	296.3	
MIN = 2	37 GHZ	249.3	251.9	312.9	300.9	
REC # 24,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	246.5	238.6	307.5	301.7	
DAY = 21	10 GHZ	262.6	263.1	311.6	296.6	
HR = 14	18 GHZ	254.1	259.2	310.8	296.5	
MIN = 9	37 GHZ	240.5	240.0	312.8	301.0	
REC # 25,	INCLIN = 10	T (V)	T (H)	HOT LD.	ANT.	TEMP=10C LN2 REFILLED
MON = 3	5 GHZ	259.7	255.1	307.9	302.2	
DAY = 21	10 GHZ	267.8	268.7	311.6	297.4	
HR = 14	18 GHZ	250.4	257.3	311.1	297.8	
MIN = 40	37 GHZ	264.3	265.4	312.7	301.2	
REC # 26,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	260.5	256.7	308.0	302.2	
DAY = 21	10 GHZ	267.6	268.0	311.6	297.6	
HR = 14	18 GHZ	250.7	255.6	311.2	298.3	
MIN = 48	37 GHZ	263.2	264.0	312.6	301.1	
REC # 27,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	261.4	257.0	308.1	302.2	
DAY = 21	10 GHZ	267.0	267.9	311.6	297.7	
HR = 14	18 GHZ	250.7	255.1	311.3	298.8	
MIN = 55	37 GHZ	262.2	263.3	312.5	301.0	
REC # 28,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	TEMP=8C
MON = 3	5 GHZ	262.7	259.1	308.2	302.1	
DAY = 21	10 GHZ	268.3	268.7	311.6	297.9	
HR = 15	18 GHZ	250.0	254.7	311.5	299.8	
MIN = 3	37 GHZ	260.8	262.6	312.3	300.8	
REC # 29,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	262.9	259.3	308.3	302.0	
DAY = 21	10 GHZ	267.9	268.8	311.6	298.0	
HR = 15	18 GHZ	247.3	252.3	311.5	300.3	
MIN = 10	37 GHZ	260.6	262.5	312.2	300.7	
REC # 30,	INCLIN = 0	T (V)	T (H)	HOT LD.	ANT.	
MON = 3	5 GHZ	264.1	260.0	308.3	301.9	
DAY = 21	10 GHZ	268.0	268.4	311.6	298.1	
HR = 15	18 GHZ	245.6	254.7	311.6	300.7	
MIN = 17	37 GHZ	259.0	262.7	312.1	300.5	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	TEMP	TIME ESTIMATED
31					0						
	3				5 GHZ	264.8	260.8	308.4	301.8	8C	
	21				10 GHZ	268.0	268.0	311.6	298.2		
	15				18 GHZ	248.7	254.4	311.7	301.0		
	25				37 GHZ	259.6	263.2	312.1	300.3		
32					0						
	3				5 GHZ	265.5	261.6	308.5	301.6		
	21				10 GHZ	268.1	268.1	311.6	298.2		
	15				18 GHZ	247.4	253.5	311.7	301.1		
	32				37 GHZ	259.4	261.8	312.0	300.1		
33					0						
	3				5 GHZ	266.0	262.8	308.5	301.4		
	21				10 GHZ	268.1	268.5	311.6	298.1		
	15				18 GHZ	247.2	252.9	311.7	301.2		
	40				0 GHZ	0.0	0.0	312.0	299.9		
34					0						
	3				5 GHZ	266.0	262.2	308.4	300.5		
	21				10 GHZ	268.0	268.9	311.6	297.5		
	15				18 GHZ	254.8	257.0	311.3	299.7		
	52				37 GHZ	256.2	256.8	312.1	298.9		
35					0						
	3				5 GHZ	266.4	262.8	308.4	300.3		
	21				10 GHZ	268.1	268.5	311.6	297.4		
	16				18 GHZ	252.9	258.1	311.2	299.6		
	0				37 GHZ	255.2	258.7	312.1	298.7		
36					0						
	3				5 GHZ	265.8	262.1	308.4	300.2		
	21				10 GHZ	268.0	268.4	311.6	297.4		
	16				18 GHZ	253.1	258.3	311.2	299.5		
	6				37 GHZ	253.9	254.5	312.1	298.6		
37					0						
	3				5 GHZ	265.8	262.1	308.4	300.1		
	21				10 GHZ	267.9	267.9	311.6	297.3		
	16				18 GHZ	252.1	257.2	311.2	299.4		
	14				37 GHZ	253.1	256.6	312.1	298.5		
38					0						
	3				5 GHZ	266.4	262.1	308.4	300.1		
	21				10 GHZ	268.2	268.1	311.6	297.3		
	16				18 GHZ	252.9	257.9	311.1	299.4		
	20				37 GHZ	252.2	254.1	312.1	298.5		
39					0						
	3				5 GHZ	265.6	262.0	308.4	300.1		
	21				10 GHZ	267.5	268.0	311.6	297.3		
	16				18 GHZ	253.6	255.8	311.1	299.4		
	28				37 GHZ	251.7	253.5	312.1	298.5		

END OF RUN.

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REC # 1, 3	INCLIN = 42	T(V)	T(H)	HOT LD.	ANT.	LOCATION FRASER	FREE HANG
MON = 22	5 GHZ	232.8	203.3	297.7	272.2	ATM TEMP=	TEMP=5C
DAY = 9	10 GHZ	223.7	179.4	310.7	272.0		
HR = 6	18 GHZ	245.3	217.2	289.5	274.0		
MIN = 37	GHZ	195.8	188.3	298.4	271.8		
REC # 2, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=4.5C	
MON = 22	5 GHZ	232.3	230.0	298.8	273.7		
DAY = 9	10 GHZ	229.8	228.8	310.8	273.5		
HR = 16	18 GHZ	254.1	256.4	291.0	275.9		
MIN = 37	GHZ	191.9	193.6	300.1	273.2		
REC # 3, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.		
MON = 22	5 GHZ	221.5	224.3	299.4	274.7		
DAY = 9	10 GHZ	235.3	236.3	310.9	274.5		
HR = 23	18 GHZ	242.8	250.3	292.0	277.2		
MIN = 37	GHZ	202.3	201.2	301.3	274.2		
REC # 4, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	ANTENNAS AT 40-42 DEG. (FREE HANG)	
MON = 22	5 GHZ	233.1	204.9	300.8	276.8		
DAY = 9	10 GHZ	241.7	212.6	311.0	276.7		
HR = 39	18 GHZ	253.4	245.0	294.3	279.8		
MIN = 37	GHZ	245.0	240.4	303.6	276.2		
REC # 5, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	40-42 DEG (FREE HANG)	
MON = 22	5 GHZ	249.0	218.4	303.9	282.7	SUN COMING OUT OCCASIONALLY	
DAY = 10	10 GHZ	261.1	255.1	311.2	282.3	TEMP=7C	
HR = 35	18 GHZ	279.1	280.4	300.6	286.1		
MIN = 37	GHZ	257.3	253.9	309.1	282.0		
REC # 6, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C	
MON = 22	5 GHZ	240.5	234.9	304.2	283.3		
DAY = 10	10 GHZ	262.9	261.9	311.2	282.9		
HR = 43	18 GHZ	279.4	283.0	301.3	286.7		
MIN = 37	GHZ	256.2	253.3	309.6	282.6		
REC # 7, 3	INCLIN = C	T(V)	T(H)	HOT LD.	ANT.	TEMP=6.5C	
MON = 22	5 GHZ	239.5	239.7	304.4	283.9		
DAY = 10	10 GHZ	262.6	263.9	311.1	283.4		
HR = 54	18 GHZ	277.1	284.0	302.1	287.1		
MIN = 37	GHZ	254.9	253.4	310.0	283.3		
REC # 8, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	40-42 DEG (FREE HANG)	
MON = 22	5 GHZ	251.1	226.7	304.6	284.6	SUN OUT (HAZY)	
DAY = 11	10 GHZ	264.2	258.1	311.1	284.0	TEMP=6.5C	
HR = 2	18 GHZ	278.1	279.7	302.8	287.7		
MIN = 37	GHZ	258.3	254.8	310.3	284.1		
REC # 9, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.		
MON = 22	5 GHZ	247.2	245.5	304.8	285.2		
DAY = 11	10 GHZ	264.7	264.6	311.1	284.5		
HR = 8	18 GHZ	278.9	283.3	303.3	288.3		
MIN = 37	GHZ	257.5	257.1	310.5	284.6		
REC # 10, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C	
MON = 22	5 GHZ	249.4	250.4	305.0	286.2		
DAY = 11	10 GHZ	263.6	264.5	311.1	285.3		
HR = 17	18 GHZ	277.7	282.8	304.2	289.1		
MIN = 37	GHZ	251.3	248.7	310.7	285.6		

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REC # 11, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	40-42 DEG (FREE HANG)
NON = 3	5 GHZ	260.8	234.5	305.3	288.4	
DAY = 22	10 GHZ	265.1	256.4	311.1	287.0	
HR = 11	18 GHZ	278.8	278.0	305.6	291.4	
MIN = 27	37 GHZ	258.3	255.5	310.8	287.7	
REC # 12, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=7C
NON = 3	5 GHZ	249.3	244.5	305.4	289.0	
DAY = 22	10 GHZ	264.3	262.4	311.1	287.5	
HR = 11	18 GHZ	278.5	281.8	306.1	291.9	
MIN = 32	37 GHZ	260.8	258.4	310.9	288.2	
REC # 13, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=6.5C
NON = 3	5 GHZ	251.0	251.3	305.6	290.0	
DAY = 22	10 GHZ	265.1	265.1	311.1	288.3	
HR = 11	18 GHZ	278.4	282.2	306.9	292.8	
MIN = 42	37 GHZ	249.8	245.3	311.1	289.3	
REC # 14, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	40-42 DEG (FREE HANG)
NON = 3	5 GHZ	263.9	236.5	305.8	290.9	
DAY = 22	10 GHZ	263.4	250.5	311.2	289.0	HAZY SUN
HR = 11	18 GHZ	275.0	274.4	307.7	293.6	TEMP=7C
MIN = 53	37 GHZ	260.2	256.7	311.2	290.2	
REC # 15, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=7C
NON = 3	5 GHZ	251.3	247.1	305.9	291.2	
DAY = 22	10 GHZ	261.9	260.0	311.2	289.3	
HR = 11	18 GHZ	275.4	280.5	308.0	293.9	
MIN = 58	37 GHZ	256.6	254.3	311.2	290.5	
REC # 16, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	BRIGHT SUN
NON = 3	5 GHZ	249.8	251.3	306.0	291.6	
DAY = 22	10 GHZ	262.7	263.1	311.2	289.6	
HR = 12	18 GHZ	266.8	270.7	308.3	294.1	
MIN = 4	37 GHZ	249.6	250.2	311.3	290.9	
REC # 17, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	40-42 DEG (FREE HANG)
NON = 3	5 GHZ	264.7	237.3	306.2	291.9	
DAY = 22	10 GHZ	263.1	244.1	311.3	289.9	
HR = 12	18 GHZ	264.4	260.4	308.6	294.3	
MIN = 11	37 GHZ	262.3	259.2	311.3	291.3	
REC # 18, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TIME APPROXIMATED
NON = 3	5 GHZ	251.4	246.0	306.3	291.6	CLOUDS
DAY = 22	10 GHZ	259.2	255.9	311.4	289.8	
HR = 12	18 GHZ	263.5	268.9	308.6	293.7	
MIN = 18	37 GHZ	259.1	255.8	311.2	291.2	
REC # 19, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	CLOUDY
NON = 3	5 GHZ	243.5	244.2	306.4	291.8	
DAY = 22	10 GHZ	261.6	260.6	311.5	289.9	
HR = 12	18 GHZ	262.6	267.7	308.8	293.7	
MIN = 25	37 GHZ	254.3	252.1	311.2	291.4	
REC # 20, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	NEW LN2 ADDED HERE
NON = 3	5 GHZ	267.0	241.6	306.7	292.2	40-42 DEG (FREE HANG)
DAY = 22	10 GHZ	264.2	247.1	311.7	290.2	TEMP=6.5C CLOUDY
HR = 13	18 GHZ	263.7	261.6	309.5	293.5	
MIN = 0	37 GHZ	263.1	262.7	311.1	292.0	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	TEMP	STATUS
REC # 21,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	251.5	245.5	306.7	292.2	TEMP=6C	
DAY = 22	10 GHZ	261.0	258.2	311.7	290.2		
HR = 13	18 GHZ	263.5	270.2	309.5	293.4		
MIN = 6	37 GHZ	266.7	265.3	311.1	292.0		
REC # 22,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	253.7	253.2	306.7	292.2	TEMP=7.5C	CLOUDY
DAY = 22	10 GHZ	262.8	262.3	311.7	290.2		
HR = 13	18 GHZ	264.8	270.7	309.5	293.3		
MIN = 13	37 GHZ	263.1	262.3	311.0	292.0		
REC # 23,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	268.4	241.4	306.7	292.2	40-42 (FREE HANG)	
DAY = 22	10 GHZ	262.8	247.6	311.7	290.1	TEMP=8C	CLOUDY
HR = 13	18 GHZ	263.1	259.8	309.5	293.2		
MIN = 19	37 GHZ	264.1	262.1	311.0	291.9		
REC # 24,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	253.4	247.1	306.5	292.1	TEMP=6.5C	CLOUDY
DAY = 22	10 GHZ	261.4	258.1	311.7	290.0		
HR = 13	18 GHZ	263.7	267.9	309.7	293.0		
MIN = 26	37 GHZ	265.4	265.5	311.0	291.9		
REC # 25,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	260.9	260.7	306.4	291.9	TEMP=6C	CLOUDY
DAY = 22	10 GHZ	264.1	264.5	311.7	289.7		
HR = 13	18 GHZ	265.7	270.8	309.5	292.6		
MIN = 40	37 GHZ	258.8	257.9	310.9	291.6		
REC # 26,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	268.2	242.7	306.3	291.6	40-42 (FREE HANG)	
DAY = 22	10 GHZ	264.1	248.4	311.7	289.3	TEMP=6C	CLOUDY
HR = 13	18 GHZ	263.3	260.5	309.3	292.2		
MIN = 52	37 GHZ	263.9	263.7	310.8	291.2		
REC # 27,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	254.4	248.2	306.3	291.3	TEMP=6C	CLOUDY
DAY = 22	10 GHZ	261.4	258.1	311.6	289.1		
HR = 13	18 GHZ	262.4	267.3	309.0	291.9		
MIN = 59	37 GHZ	265.7	263.7	310.7	290.9		
REC # 28,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	257.1	254.3	306.2	291.1	TEMP=4.5C	CLOUDY
DAY = 22	10 GHZ	263.7	264.1	311.6	288.7		
HR = 14	18 GHZ	265.5	271.6	308.7	291.5		
MIN = 7	37 GHZ	264.0	262.5	310.7	290.6		
REC # 29,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	268.5	243.8	306.1	290.8	40-42 (FREE HANG)	
DAY = 22	10 GHZ	264.2	248.9	311.6	288.4	TEMP=4C	CLOUDY
HR = 14	18 GHZ	265.5	261.3	308.4	291.2		
MIN = 14	37 GHZ	263.4	263.9	310.6	290.2		
REC # 30,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	257.1	249.8	306.1	290.5	TEMP=4C	
DAY = 22	10 GHZ	262.3	259.5	311.6	288.1		
HR = 14	18 GHZ	268.5	272.0	308.2	290.9		
MIN = 20	37 GHZ	265.0	265.2	310.5	289.9		

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 31, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	262.1	261.4	305.9	290.0	CLOUDY, SNOW FALLING
DAY = 22	10 GHZ	263.9	263.9	311.5	287.5	TEMP=4C
HR = 14	18 GHZ	268.1	273.6	307.6	290.3	
MIN = 31	37 GHZ	256.1	255.8	310.4	289.2	
REC # 32, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	267.8	264.8	305.8	288.6	40-42 (FREE HANG)
DAY = 22	10 GHZ	264.1	249.0	311.3	285.9	STILL SNOWING
HR = 14	18 GHZ	267.0	267.0	306.0	288.7	
MIN = 41	37 GHZ	262.5	263.6	310.1	287.3	
REC # 33, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.6	253.0	305.7	288.2	STILL SNOWING
DAY = 22	10 GHZ	262.8	260.5	311.3	285.5	TEMP=2C
HR = 14	18 GHZ	270.3	275.4	305.5	288.3	
MIN = 48	37 GHZ	263.9	264.8	310.0	286.8	
REC # 34, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	256.9	255.3	305.6	287.9	SNOW STILL FALLING
DAY = 22	10 GHZ	263.8	263.8	311.2	285.1	TEMP=2C DARK SKY
HR = 14	18 GHZ	272.5	277.3	305.2	288.0	
MIN = 54	37 GHZ	256.2	256.5	309.9	286.4	
REC # 35, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	268.4	247.7	305.5	287.6	40-42 (FREE HANG)
DAY = 22	10 GHZ	263.4	251.0	311.2	284.7	TEMP=2C SNOWING
HR = 15	18 GHZ	272.0	269.7	304.8	287.6	
MIN = 2	37 GHZ	262.5	261.0	309.8	286.0	
REC # 36, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.9	254.1	305.5	287.4	TEMP=0C SNOWING HARD
DAY = 22	10 GHZ	263.4	262.4	311.2	284.6	
HR = 15	18 GHZ	278.0	281.7	304.6	287.4	
MIN = 6	37 GHZ	261.6	260.9	309.8	285.8	
REC # 37, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	259.1	259.4	305.4	287.2	TEMP=0C SNOWING HARD
DAY = 22	10 GHZ	265.5	265.5	311.2	284.3	
HR = 15	18 GHZ	277.7	284.2	304.2	287.2	
MIN = 13	37 GHZ	261.7	261.2	309.8	285.4	
REC # 38, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	267.5	250.5	305.2	286.9	40-42 (FREE HANG)
DAY = 22	10 GHZ	264.8	261.6	311.1	284.0	TEMP=0C SNOWING HARD
HR = 15	18 GHZ	279.9	282.3	303.8	286.9	
MIN = 24	37 GHZ	259.3	254.8	309.7	285.0	
REC # 39, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	235.0	259.0	305.1	286.7	
DAY = 22	10 GHZ	264.1	264.0	311.1	283.8	
HR = 15	18 GHZ	279.8	284.6	303.5	286.7	
MIN = 34	37 GHZ	254.5	252.8	309.7	284.8	
REC # 40, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	258.8	256.3	305.0	286.6	RESET COUNTER STARTING WITH RECORD 1
DAY = 22	10 GHZ	263.7	264.1	311.1	283.7	REC(1-9) SHOWN HERE AS (40-48)
HR = 15	18 GHZ	280.7	285.8	303.3	286.7	STILL SNOWING HARD, BRIGHTER SKY
MIN = 42	37 GHZ	258.3	257.8	309.6	284.7	TEMP=0C

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	Notes
41	3	22	15	47	41	265.9	251.0	304.7	286.8	40-42 (FREE HANG) REC(2) STILL SHOWING HARD, PARTIAL SUN TEMP=1C
					5 GHZ	263.8	260.1	311.1	283.9	
					10 GHZ	281.4	283.2	303.3	287.1	
					18 GHZ	263.4	259.7	309.7	284.9	
42	3	22	15	56	20	260.7	256.7	304.6	286.8	REC(3) BRIGHT SKY STILL CLOUDY AND SHOWING TEMP=1C
					5 GHZ	265.1	263.7	311.1	283.9	
					10 GHZ	279.0	284.5	303.1	287.1	
					18 GHZ	261.7	260.4	309.7	284.9	
43	3	22	16	4	0	262.4	249.0	304.6	286.7	REC(4) SHOWING TEMP=1C
					5 GHZ	265.2	262.5	311.1	283.9	
					10 GHZ	279.1	275.6	303.0	287.1	
					18 GHZ	262.8	262.0	309.7	284.8	
44	3	22	16	10	41	267.6	252.8	304.6	286.7	REC(5) 40-42 (FREE HANG) TEMP=1C SHOWING
					5 GHZ	264.8	262.0	311.1	283.9	
					10 GHZ	277.0	277.7	303.0	287.1	
					18 GHZ	264.1	262.3	309.7	284.8	
45	3	22	16	20	20	263.1	257.1	304.6	286.7	REC(6) SHOWING TEMP=1C
					5 GHZ	265.7	265.2	311.1	283.9	
					10 GHZ	281.2	286.0	303.0	287.1	
					18 GHZ	261.8	260.4	309.7	284.8	
46	3	22	16	30	0	257.0	256.0	304.6	286.7	REC(7) STOPPED SHOWING SKY DARK
					5 GHZ	264.3	264.2	311.1	283.9	
					10 GHZ	275.4	279.1	303.0	287.1	
					18 GHZ	251.8	248.0	309.7	284.8	
47	3	22	16	36	41	267.1	250.7	304.6	286.7	REC(8) 40-42 (FREE HANG) TEMP=1C LIGHT SNOW AGAIN
					5 GHZ	263.9	258.7	311.1	283.9	
					10 GHZ	276.7	274.0	303.0	287.1	
					18 GHZ	263.6	262.5	309.7	284.8	
48	3	22	16	45	20	260.5	256.5	304.6	286.7	REC(9) LAST RECORD
					5 GHZ	264.8	264.8	311.1	283.9	
					10 GHZ	273.4	276.7	303.0	287.1	
					18 GHZ	261.0	259.4	309.7	284.8	

END OF RUN.

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REC # 1, 3	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	LOCATION FRASER
MON = 23	5 GHZ	269.0	260.9	289.5	279.4	ANTENNAS AT 40-42 (FREE HANG)
DAY = 23	10 GHZ	265.3	263.4	300.5	278.9	AIR TEMP=3.5C
HR = 9	18 GHZ	282.7	281.0	289.2	278.6	SWATH SCAN
MIN = 19	37 GHZ	265.3	263.1	293.3	279.3	
REC # 2, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C SWATH SCAN
MON = 23	5 GHZ	261.6	255.1	291.6	280.6	
DAY = 23	10 GHZ	261.9	259.6	303.6	279.8	
HR = 9	18 GHZ	281.7	283.6	290.7	279.8	
MIN = 25	37 GHZ	266.8	263.8	295.5	280.5	
REC # 3, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C
MON = 23	5 GHZ	257.4	254.4	293.9	282.0	
DAY = 23	10 GHZ	262.3	261.3	306.7	281.0	
HR = 9	18 GHZ	284.1	286.0	292.4	281.2	
MIN = 32	37 GHZ	268.4	264.5	297.8	281.8	
REC # 4, 3	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	5 GHZ UNSTABLE
MON = 23	5 GHZ	255.1	255.2	295.7	283.1	SURFACE MELT JUST STARTED
DAY = 23	10 GHZ	260.8	260.2	308.8	281.9	TEMP=5C
HR = 9	18 GHZ	281.8	287.6	293.8	282.5	
MIN = 38	37 GHZ	263.9	259.4	299.8	283.0	
REC # 5, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=7C
MON = 23	5 GHZ	259.8	262.1	297.3	284.2	
DAY = 23	10 GHZ	264.4	264.4	310.4	282.9	
HR = 9	18 GHZ	279.9	285.7	295.1	283.7	
MIN = 44	37 GHZ	263.9	258.9	301.6	284.1	
REC # 6, 3	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	TEMP=4C SNOWING
MON = 23	5 GHZ	269.6	256.4	299.8	286.0	
DAY = 23	10 GHZ	263.7	235.3	312.3	284.6	
HR = 9	18 GHZ	274.9	271.7	297.5	286.0	
MIN = 55	37 GHZ	264.7	259.6	304.8	286.1	
REC # 7, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	TEMP=3.5C CLOUDS
MON = 23	5 GHZ	270.2	253.0	301.0	286.9	20 PERCENT FREE WATER AT 10 AM.
DAY = 23	10 GHZ	263.3	234.9	312.6	285.6	
HR = 10	18 GHZ	247.0	271.1	298.8	287.3	
MIN = 1	37 GHZ	264.4	256.2	306.4	287.1	
REC # 8, 3	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	TEMP=5.5C BRIGHT SUN
MON = 23	5 GHZ	270.4	245.6	301.6	287.6	
DAY = 23	10 GHZ	263.3	235.9	311.6	286.5	
HR = 10	18 GHZ	276.9	267.6	299.8	288.7	
MIN = 6	37 GHZ	264.3	252.1	307.8	288.1	
REC # 9, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	TEMP=6C BRIGHT SUN
MON = 23	5 GHZ	270.0	230.7	302.7	288.6	
DAY = 23	10 GHZ	262.0	223.6	311.6	287.5	
HR = 10	18 GHZ	275.0	257.5	301.1	290.1	
MIN = 13	37 GHZ	263.1	249.0	309.3	289.2	
REC # 10, 3	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	TEMP=4C CLOUDY SKY
MON = 23	5 GHZ	265.3	210.8	303.6	289.4	
DAY = 23	10 GHZ	259.3	200.9	311.6	288.4	
HR = 10	18 GHZ	272.2	251.9	302.4	291.2	
MIN = 20	37 GHZ	263.0	249.4	310.7	290.2	

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REC # 11,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	TEMP=3C	CLOUDY SKY, SOME SUN
MON = 3	5 GHZ	251.6	177.4	304.2	290.0		
DAY = 23	10 GHZ	250.2	174.6	311.6	289.0		
HR = 10	18 GHZ	267.4	238.3	303.2	292.0		
MIN = 25	37 GHZ	262.4	250.8	311.5	290.8		
REC # 12,	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C	
MON = 3	5 GHZ	247.0	167.6	304.9	290.6		
DAY = 23	10 GHZ	239.7	155.5	311.6	289.6		
HR = 10	18 GHZ	259.1	223.1	304.1	292.7		
MIN = 31	37 GHZ	262.4	251.0	312.3	291.5		
REC # 13,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C	HAZY SUN
MON = 3	5 GHZ	234.1	154.3	305.8	291.6		
DAY = 23	10 GHZ	222.1	137.1	311.5	290.6		
HR = 10	18 GHZ	247.2	206.7	305.7	293.7		
MIN = 42	37 GHZ	261.2	254.7	313.3	292.5		
REC # 14,	INCLIN = 135	T(V)	T(H)	HOT LD.	ANT.	SKY CAL	AT PARTLY CLOUDY SKY
MON = 3	5 GHZ	3.0	7.8	306.0	291.9	LOOKING	
DAY = 23	10 GHZ	2.3	2.1	311.5	291.0	TEMP=5C	
HR = 10	18 GHZ	10.4	9.3	306.2	294.0		
MIN = 46	37 GHZ	21.3	32.4	313.5	292.8		
REC # 15,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	THIS SERIES IS SPOT SCAN OF THREE ANGLES. ANTENNAS AT 40-42 (FREE HANG) TEMP=4C	
MON = 3	5 GHZ	264.3	228.6	305.9	293.3		
DAY = 23	10 GHZ	261.1	244.2	311.2	292.1		
HR = 11	18 GHZ	259.7	259.9	309.1	292.8		
MIN = 20	37 GHZ	267.7	266.2	311.1	293.4		
REC # 16,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	TEMP=4C	
MON = 3	5 GHZ	258.4	250.7	306.2	293.6		
DAY = 23	10 GHZ	262.1	259.7	311.2	292.4		
HR = 11	18 GHZ	257.8	261.6	309.7	292.9		
MIN = 29	37 GHZ	268.4	267.6	311.1	293.7		
REC # 17,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	TEMP=3C	
MON = 3	5 GHZ	255.6	254.7	306.3	293.8		
DAY = 23	10 GHZ	262.9	263.7	311.1	292.5		
HR = 11	18 GHZ	261.5	264.9	310.0	292.9		
MIN = 35	37 GHZ	266.1	264.3	311.2	293.8		
REC # 18,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	40-42 (FREE HANG)	
MON = 3	5 GHZ	264.6	230.0	306.4	294.0	SNOW STARTING TO FALL HARD	
DAY = 23	10 GHZ	261.2	245.8	311.1	292.6	TEMP=2.5C	
HR = 11	18 GHZ	263.1	262.1	310.3	292.9		
MIN = 42	37 GHZ	266.7	265.6	311.2	293.8		
REC # 19,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	SOME FILTERED SUN	
MON = 3	5 GHZ	259.0	252.9	306.5	294.0	SNOW ENDED	
DAY = 23	10 GHZ	262.9	260.9	311.1	292.7	TEMP=2C	
HR = 11	18 GHZ	261.1	263.4	310.5	292.9		
MIN = 49	37 GHZ	268.9	268.6	311.2	293.9		
REC # 20,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.		
MON = 3	5 GHZ	256.8	254.9	306.6	294.1		
DAY = 23	10 GHZ	261.0	261.3	311.1	292.7		
HR = 11	18 GHZ	258.7	265.2	310.7	292.8		
MIN = 56	37 GHZ	262.0	259.0	311.3	293.8		

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	Notes
21	3	23	12	3	41	265.0	228.8	306.7	294.1	40-42 (FREE HANG) TEMP=2.5C
					5 GHZ	261.6	246.7	311.1	292.7	
					10 GHZ	263.9	263.5	310.8	292.7	
					37 GHZ	266.4	265.7	311.2	293.8	
22	3	23	12	9	20	261.5	255.7	306.7	294.1	FINE SNOW STARTING TEMP=2C
					5 GHZ	261.3	259.8	311.1	292.6	
					10 GHZ	261.3	267.5	310.8	292.5	
					37 GHZ	266.6	264.5	311.2	293.7	
23	3	23	12	19	0	262.5	257.7	306.3	293.3	PACKAGE SHIFTED DURING MEASUREMENT ABOUT 5 DEGREES.
					5 GHZ	264.1	264.0	311.1	291.8	
					10 GHZ	261.1	267.9	309.7	291.4	
					37 GHZ	261.1	258.7	310.9	292.8	
24	3	23	12	25	41	266.0	234.2	306.3	293.2	40-42 (FREE HANG) TEMP=3C CLOUDY
					5 GHZ	262.6	264.4	311.1	291.6	
					10 GHZ	262.7	263.4	309.6	291.3	
					37 GHZ	265.7	264.7	310.9	292.6	
25	3	23	12	33	20	263.5	257.3	306.3	293.1	TEMP=3C CLOUDY
					5 GHZ	261.8	261.3	311.1	291.4	
					10 GHZ	264.4	269.1	309.5	291.1	
					37 GHZ	266.2	265.0	310.8	292.4	
26	3	23	12	40	0	261.6	258.3	306.3	292.9	
					5 GHZ	264.4	264.8	311.1	291.3	
					10 GHZ	265.1	270.6	309.3	290.9	
					37 GHZ	261.0	258.8	310.8	292.1	
27	3	23	13	3	41	269.1	247.1	306.2	292.3	40-42 (FREE HANG) CLOUDY
					5 GHZ	264.8	258.7	311.1	290.6	
					10 GHZ	261.8	259.8	308.7	290.4	
					37 GHZ	265.6	263.5	310.7	291.3	
28	3	23	13	5	20	268.4	261.5	306.2	292.2	TEMP=2.5C
					5 GHZ	263.6	262.2	311.1	290.5	
					10 GHZ	265.1	270.0	308.7	290.3	
					37 GHZ	265.0	263.1	310.6	291.2	
29	3	23	13	12	0	264.9	261.4	306.1	292.0	TEMP=2C
					5 GHZ	265.3	265.3	311.1	290.2	
					10 GHZ	268.5	274.1	308.4	290.2	
					37 GHZ	262.2	259.2	310.6	290.9	
30	3	23	13	20	41	269.9	250.4	306.0	291.7	40-42 (FREE HANG) TEMP=2C CLOUDY
					5 GHZ	263.2	257.6	311.1	289.9	
					10 GHZ	267.2	261.0	308.2	290.0	
					37 GHZ	263.7	262.6	310.5	290.5	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	Notes
31	3	23	13	27	20	269.5	261.9	306.0	291.4	LIGHT SNOW FALLING AGAIN TEMP=2C
					5 GHZ	262.9	260.6	311.1	289.6	
					10 GHZ	268.7	272.9	307.9	289.8	
					18 GHZ	264.3	263.1	310.5	290.1	
					37 GHZ					
32	3	23	13	34	0	268.1	264.3	305.9	291.1	TEMP=1.3C
					5 GHZ	264.3	264.7	311.1	289.3	
					10 GHZ	270.8	275.3	307.6	289.7	
					18 GHZ	258.6	255.7	310.5	289.7	
					37 GHZ					
33	3	23	13	42	41	270.9	252.2	305.7	290.5	SHOWING AGAIN CLOUDY TEMP=1C 40-42 (FREE HANG)
					5 GHZ	263.6	256.7	311.1	288.8	
					10 GHZ	268.1	265.1	307.0	290.9	
					18 GHZ	264.4	262.1	310.5	289.1	
					37 GHZ					
34	3	23	13	49	20	269.2	264.2	305.6	290.2	SNOW AND SUN TOGETHER
					5 GHZ	261.9	260.0	311.1	288.5	
					10 GHZ	270.8	274.3	306.7	290.6	
					18 GHZ	264.1	263.3	310.4	288.7	
					37 GHZ					
35	3	23	13	56	0	267.2	264.5	305.5	289.9	TEMP=1C PARTIAL SUN
					5 GHZ	264.8	265.2	311.1	288.2	
					10 GHZ	271.9	278.1	306.4	290.2	
					18 GHZ	255.6	253.3	310.4	288.3	
					37 GHZ					
36	3	23	14	4	41	271.1	254.7	305.4	289.5	40-42 (FREE HANG) SUN FILTERED MORE TEMP=1C
					5 GHZ	262.7	255.4	311.1	287.8	
					10 GHZ	278.0	276.3	306.1	289.6	
					18 GHZ	263.3	260.4	310.3	287.9	
					37 GHZ					
37	3	23	14	12	20	268.8	264.7	305.3	289.2	TEMP=1C CLOUDY AGAIN
					5 GHZ	260.2	258.3	311.1	287.5	
					10 GHZ	278.2	282.7	305.7	288.8	
					18 GHZ	263.4	261.8	310.2	287.4	
					37 GHZ					
38	3	23	14	20	0	266.5	263.2	305.2	288.8	TEMP=1C CLOUDY, SNOW
					5 GHZ	262.5	262.4	311.1	287.1	
					10 GHZ	280.3	285.6	305.3	287.9	
					18 GHZ	259.4	255.0	310.1	287.0	
					37 GHZ					
39	3	23	14	27	41	270.6	254.3	305.1	288.5	40-42 (FREE HANG) CLOUDY TEMP=1C
					5 GHZ	262.5	255.6	311.1	286.8	
					10 GHZ	278.5	277.9	305.0	287.0	
					18 GHZ	263.4	262.0	310.0	286.7	
					37 GHZ					
40	3	23	14	34	20	268.9	264.2	305.0	288.2	RESTARTED COUNTER EOP RECORDS 1-18 LISTED HERE AS 40-57 REC(1) FRASER TEMP=1C
					5 GHZ	259.8	257.9	311.1	286.5	
					10 GHZ	280.8	284.4	304.7	286.0	
					18 GHZ	262.2	261.6	309.9	286.3	
					37 GHZ					

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	REMARKS
REC # 41,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	265.1	261.9	304.9	287.8	REC(2) CLOUDY
DAY = 23	10 GHZ	262.5	262.9	311.1	286.1	TEMP=-1C
HR = 14	18 GHZ	280.8	286.6	304.3	284.7	
MIN = 42	37 GHZ	257.3	256.1	309.8	265.9	
REC # 42,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	269.1	254.3	304.5	286.5	REC(3) CLOUDY
DAY = 23	10 GHZ	262.9	255.9	311.1	284.8	FREE HANG - ASSUME ANGLE=41
HR = 14	18 GHZ	278.4	278.8	302.9	277.7	
MIN = 51	37 GHZ	262.1	261.0	309.2	284.5	
REC # 43,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	267.6	262.9	304.4	286.3	REC(4) TEMP=1.5C
DAY = 23	10 GHZ	259.5	257.6	311.1	284.6	SNOW STARTING AGAIN
HR = 14	18 GHZ	281.2	284.8	302.6	276.8	
MIN = 56	37 GHZ	259.0	257.3	309.1	284.3	
REC # 44,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	263.8	260.7	304.3	286.0	REC(5) TEMP=0C
DAY = 23	10 GHZ	262.2	262.6	311.1	284.3	HEAVY SNOW
HR = 15	18 GHZ	283.2	288.2	302.4	275.8	
MIN = 3	37 GHZ	254.8	252.5	309.0	284.0	
REC # 45,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	266.9	265.2	304.2	285.6	REPEAT OF THIS MORNINGS SWATH SCAN
DAY = 23	10 GHZ	263.3	263.2	311.1	283.9	REC(6) TEMP=0C
HR = 15	18 GHZ	285.7	291.2	301.9	273.8	HEAVY SNOW
MIN = 35	37 GHZ	261.3	260.3	308.8	283.5	
REC # 46,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	265.4	263.6	304.2	285.6	VERY POOR VISIBILITY, HEAVY SNOW
DAY = 23	10 GHZ	261.6	261.9	311.1	283.9	REC(7) TEMP=0C
HR = 15	18 GHZ	287.4	293.2	301.9	273.8	
MIN = 42	37 GHZ	263.4	261.7	308.8	283.5	
REC # 47,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	264.4	261.0	304.2	285.6	REC(8) SAME
DAY = 23	10 GHZ	262.0	261.0	311.1	283.9	
HR = 15	18 GHZ	287.9	292.5	301.9	273.8	
MIN = 51	37 GHZ	264.6	263.5	308.8	283.5	
REC # 48,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	267.0	260.8	304.2	285.6	REC(9) SAME
DAY = 23	10 GHZ	262.1	258.4	311.1	283.9	
HR = 15	18 GHZ	289.4	292.6	301.9	273.8	
MIN = 56	37 GHZ	263.9	262.0	308.8	283.5	
REC # 49,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	269.8	260.0	304.2	285.6	REC(10) STILL HEAVY SNOW
DAY = 23	10 GHZ	264.1	259.4	311.1	283.9	40-42 (FREE HANG)
HR = 16	18 GHZ	287.9	292.7	301.9	273.8	
MIN = 3	37 GHZ	262.7	261.2	308.8	283.5	
REC # 50,	INCLIN = 45	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	270.8	258.9	304.2	285.6	REC(11) HEAVY SNOW
DAY = 23	10 GHZ	264.1	259.5	311.1	283.9	
HR = 16	18 GHZ	289.0	292.3	301.9	273.8	
MIN = 16	37 GHZ	261.6	260.2	308.8	283.5	

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REC # 51,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	REC(12)
NOV = 3	5 GHZ	271.1	256.2	304.2	285.6	
DAY = 23	10 GHZ	264.0	260.8	311.1	283.9	
HR = 16	18 GHZ	286.6	290.3	301.9	273.8	
HIW = 21	37 GHZ	261.6	257.6	308.8	283.5	
REC # 52,	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	REC(13) HEAVY SNOW
NOV = 3	5 GHZ	271.4	254.3	304.2	285.6	
DAY = 23	10 GHZ	263.3	259.6	311.1	283.9	TEMP=0C
HR = 16	18 GHZ	285.9	289.7	301.9	273.8	
HIW = 26	37 GHZ	260.7	248.7	308.8	283.5	
REC # 53,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	REC(14) HEAVY SNOW
NOV = 3	5 GHZ	269.6	251.4	304.2	285.6	
DAY = 23	10 GHZ	260.7	249.3	311.1	283.9	
HR = 16	18 GHZ	279.6	280.6	301.9	273.8	
HIW = 32	37 GHZ	258.9	241.6	308.8	283.5	
REC # 54,	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.	REC(15) SNOWING HARD
NOV = 3	5 GHZ	269.3	252.0	304.2	285.6	
DAY = 23	10 GHZ	260.1	247.7	311.1	283.9	
HR = 16	18 GHZ	279.2	281.5	301.9	273.8	
HIW = 43	37 GHZ	258.0	233.7	308.8	283.5	
REC # 55,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	REC(16) SNOWING HARD
NOV = 3	5 GHZ	265.9	250.5	304.2	285.6	
DAY = 23	10 GHZ	258.0	239.3	311.1	283.9	TEMP=0C
HR = 16	18 GHZ	274.4	265.2	301.9	273.8	
HIW = 50	37 GHZ	254.6	233.5	308.8	283.5	
REC # 56,	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	REC(17) SANE
NOV = 3	5 GHZ	262.2	249.4	304.2	285.6	
DAY = 23	10 GHZ	254.1	231.1	311.1	283.9	
HR = 16	18 GHZ	269.8	254.0	301.9	273.8	
HIW = 56	37 GHZ	250.5	227.5	308.8	283.5	
REC # 57,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	REC(18) LAST RECORD
NOV = 3	5 GHZ	253.3	246.4	304.2	285.6	HEAVY SNOW
DAY = 23	10 GHZ	245.7	219.4	311.1	283.9	
HR = 17	18 GHZ	258.3	238.3	301.9	273.8	
HIW = 1	37 GHZ	243.4	219.0	308.8	283.5	

END OF RUN.

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	LOCATION
1	3	24	9	14	41	260.2	250.7	296.4	270.6	LOCATION FRASER, HAZY SUN ANTENNAS AT 40-42 (FREE HANG) SAME SPOT AS PREVIOUS SNOW 32 IN. DEEP FOR 37, 18, 5, AND X
					5 GHZ	260.1	246.0	311.1	270.8	
					10 GHZ	269.6	261.8	287.7	271.6	
					18 GHZ	228.8	224.0	296.7	270.0	
2	3	24	9	16	20	253.0	249.9	296.4	270.6	
					5 GHZ	259.7	256.4	311.1	270.8	
					10 GHZ	271.9	275.9	287.7	271.6	
					18 GHZ	228.2	224.7	296.7	270.0	
3	3	24	9	18	0	250.8	251.9	296.4	270.6	37 GHZ V AND H DATA NOT CLEAR
					5 GHZ	261.0	261.0	311.1	270.8	
					10 GHZ	272.5	276.3	287.7	271.6	
					18 GHZ	233.0	232.0	296.7	270.0	
4	3	24	9	50	0	240.7	241.8	296.4	270.6	32 IN. SNOW REMOVED BARE GROUND
					5 GHZ	251.2	250.5	311.1	270.8	
					10 GHZ	285.7	272.3	287.7	271.6	
					18 GHZ	278.6	241.0	296.7	270.0	
5	3	24	9	52	20	237.7	232.7	296.4	270.6	BARE GROUND
					5 GHZ	252.1	248.7	311.1	270.8	
					10 GHZ	267.0	268.2	287.7	271.6	
					18 GHZ	247.8	242.2	296.7	270.0	
6	3	24	9	54	41	248.0	234.2	296.4	270.6	ANTENNAS AT 40-42 (FREE HANG) BOOM LOWERED TO NARROW BEAM DROPPED 10 DEGREES 7 FT. SNOW REMOVED
					5 GHZ	257.3	252.2	311.1	270.8	
					10 GHZ	270.9	267.1	287.7	271.6	
					18 GHZ	247.7	240.7	296.7	270.0	
7	3	24	10	0	41	252.5	242.2	296.4	270.6	WITH BOOM IN ORIGINAL POSITION SNOW REMOVED LAST RECORD.
					5 GHZ	259.1	256.3	311.1	270.8	
					10 GHZ	267.2	265.4	287.7	271.6	
					18 GHZ	246.1	241.5	296.7	270.0	

END OF RUN.

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REC # 1, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	266.9	265.7	300.6	283.8	STEAMBOAT SPRINGS AREA 1 HAYSTACK
DAY = 9	10 GHZ	293.5	286.4	311.1	282.7	2-3 DEGREES OFF RADAR
HR = 25	18 GHZ	257.9	264.1	298.5	284.4	SNOW 25.5 IN. DEEP
	37 GHZ	222.1	222.2	304.6	282.8	10 FT. HIGH AIR TEMP=1C
REC # 2, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	267.6	266.3	300.6	283.8	25.5 IN. DEEP
DAY = 9	10 GHZ	309.4	278.3	311.1	282.7	TEMP=1C
HR = 25	18 GHZ	258.2	261.8	298.5	284.4	10 FT. HIGH 12 FT.
	37 GHZ	218.0	218.1	304.6	282.8	
REC # 3, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	268.9	260.9	301.3	284.4	AREA 2
DAY = 9	10 GHZ	261.2	255.0	311.1	283.3	SLANT HEIGHT = 12 FT.
HR = 32	18 GHZ	264.6	259.1	299.3	285.1	24 IN. DEEP
	37 GHZ	230.1	216.9	305.7	283.6	
REC # 4, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	268.0	260.4	302.2	285.4	AREA 2 SPOT 1 (BY HAYSTACK)
DAY = 9	10 GHZ	261.7	255.6	311.1	284.3	REPEAT OF 30 DEG. WITH PH-CW OFF
HR = 42	18 GHZ	270.1	264.5	300.5	286.2	24 IN. DEEP
	37 GHZ	233.3	224.7	307.2	284.7	TEMP=1C
REC # 5, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	266.4	266.1	302.4	285.6	SPOT 1 AREA 1
DAY = 9	10 GHZ	260.3	261.0	311.1	284.5	10 FT. FROM SNOW
HR = 44	18 GHZ	273.1	274.5	300.8	286.4	PH CW OFF
	37 GHZ	240.1	238.2	307.5	284.9	
REC # 6, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	266.5	256.2	302.5	285.8	AREA 1 SPOT 3
DAY = 9	10 GHZ	260.7	256.3	311.1	284.7	SLANT HEIGHT 10 FT.
HR = 46	18 GHZ	267.2	260.5	301.0	286.6	27.5 IN
	37 GHZ	231.9	221.8	307.7	285.1	
REC # 7, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	270.4	242.4	303.3	286.8	AREA 1 SPOT 4 (HAYSTACK)
DAY = 9	10 GHZ	262.0	253.8	311.1	285.5	TEMP=.5C VERTICAL DISTANCE 10 FT.
HR = 55	18 GHZ	277.5	260.1	302.0	287.6	37 GHZ 39,38,37.5
	37 GHZ	245.4	200.0	308.9	286.2	
REC # 8, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	273.1	253.4	303.7	287.5	AREA 2 SPOT 2 (HAYSTACK)
DAY = 10	10 GHZ	262.5	259.1	311.1	286.1	37 GHZ 25.3 IN. ALL OTHERS 25 IN.
HR = 1	18 GHZ	276.9	262.8	302.7	288.3	SLANT VERTICAL
	37 GHZ	245.6	208.6	309.6	286.9	
REC # 9, 3	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	5 GHZ	272.4	248.3	303.9	287.8	AREA 3 SPOT 1 (HAYSTACK)
DAY = 10	10 GHZ	262.8	258.9	311.1	286.4	10 FT. VERTICAL 20 FT. SLANT
HR = 4	18 GHZ	277.1	263.7	303.0	288.7	25 IN. DEEP
	37 GHZ	247.2	209.3	309.9	287.2	
REC # 10, 3	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	
MON = 28	0 GHZ	0.0	0.0	304.3	288.4	SKY CAL
DAY = 10	10 GHZ	-0.4	0.3	311.2	286.9	
HR = 19	18 GHZ	4.2	2.7	303.6	289.3	
	37 GHZ	15.8	26.3	310.4	287.8	

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REC # 11, 3	INCLIN = 140	T(V)	T(H)	HOT LD.	ANT.	STEAMBOAT SPRINGS SKY CAL
NOV = 28	5 GHZ	2.3	1.2	304.7	289.2	
DAY = 28	10 GHZ	0.1	0.8	311.2	287.5	
HR = 10	18 GHZ	4.0	2.7	304.2	290.0	
HIW = 15	37 GHZ	12.7	27.0	311.0	288.5	
REC # 11, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	AREA 1 BRIGHT SUN SNOW REMOVED FROM GROUND AND GROUND SCANNED WITH ANTENNAS BAND BY BAND.
NOV = 28	5 GHZ	243.9	244.3	305.6	291.1	
DAY = 28	10 GHZ	249.9	250.0	311.3	289.1	
HR = 10	18 GHZ	267.7	271.6	305.8	291.9	
HIW = 30	37 GHZ	257.8	255.3	312.1	290.3	
REC # 12, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	AREA 3 (FURTHER BEHIND TRUCK) FULLY EXTENDED BOOM 9 FT. HIGH 37 GHZ 30 IN. DEEP X BAND 29 IN. DEEP, C BAND 30 IN.
NOV = 28	5 GHZ	270.0	231.8	307.5	301.1	
DAY = 28	10 GHZ	265.5	264.4	312.1	296.4	
HR = 11	18 GHZ	252.1	243.2	311.6	301.1	
HIW = 38	37 GHZ	259.5	229.7	313.1	298.8	
REC # 13, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	AREA 4 RIGHT OF OTHER AREA 28, 26.5, 25, 25
NOV = 28	5 GHZ	273.6	249.1	307.5	301.1	
DAY = 28	10 GHZ	265.7	263.2	312.1	296.4	
HR = 11	18 GHZ	254.7	246.1	311.6	301.1	
HIW = 44	37 GHZ	259.6	230.8	313.1	298.8	
REC # 14, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	AREA 5 RIGHT OF OTHER AREA FROM 37 26, 26, 26 INCHES TEMP=3.5C
NOV = 28	5 GHZ	270.8	238.5	307.5	301.1	
DAY = 28	10 GHZ	264.4	262.4	312.1	296.4	
HR = 11	18 GHZ	249.7	237.0	311.6	301.1	
HIW = 50	37 GHZ	258.3	231.5	313.1	298.8	
REC # 15, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	AREA 3 DEPTHS 37 TO X 28, 28.5, 28.5 IN. 10 FT. HIGH TEMP=3C
NOV = 28	5 GHZ	271.8	268.9	307.5	301.1	
DAY = 28	10 GHZ	266.8	266.7	312.1	296.4	
HR = 11	18 GHZ	253.4	258.9	311.6	301.1	
HIW = 56	37 GHZ	257.5	259.2	313.1	298.8	
REC # 16, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	AREA 4 DEPTHS 37 TO X 26, 24, 24 IN.
NOV = 28	5 GHZ	267.7	265.0	307.5	301.1	
DAY = 28	10 GHZ	263.7	264.0	312.1	296.4	
HR = 12	18 GHZ	254.2	258.5	311.6	301.1	
HIW = 0	37 GHZ	256.3	258.6	313.1	298.8	
REC # 17, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	AREA 4 29, 29, 28.5 IN.
NOV = 28	5 GHZ	264.0	243.9	307.5	301.1	
DAY = 28	10 GHZ	265.7	264.6	312.1	296.4	
HR = 12	18 GHZ	250.1	247.2	311.6	301.1	
HIW = 6	37 GHZ	256.5	246.5	313.1	298.8	
REC # 18, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	AREA 5 26, 25.5, 25
NOV = 28	5 GHZ	269.4	257.6	307.5	301.1	
DAY = 28	10 GHZ	266.8	265.7	312.1	296.4	
HR = 12	18 GHZ	255.2	253.5	311.6	301.1	
HIW = 9	37 GHZ	257.9	248.0	313.1	298.8	
REC # 19, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	MIDWAY BETWEEN PREVIOUS 2 26, 25.5, 25
NOV = 28	5 GHZ	266.4	250.5	307.5	301.1	
DAY = 28	10 GHZ	266.2	266.1	312.1	296.4	
HR = 12	18 GHZ	250.8	250.2	311.6	301.1	
HIW = 11	37 GHZ	256.3	243.6	313.1	298.8	

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REC # 20,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	SWATH SCAN DEPTH 27 IN.
MON = 3	5 GHZ	268.6	265.0	307.5	301.1	
DAY = 28	10 GHZ	266.8	267.7	312.1	296.4	
HR = 12	18 GHZ	256.7	262.9	311.6	301.1	
MIN = 18	37 GHZ	259.9	263.4	313.1	298.8	
REC # 21,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	DEPTH 29 IN. TEMP=5C
MON = 3	5 GHZ	264.0	257.2	307.5	301.1	
DAY = 28	10 GHZ	265.5	264.4	312.1	296.4	
HR = 12	18 GHZ	255.9	258.1	311.6	301.1	
MIN = 24	37 GHZ	262.7	263.9	313.1	298.8	
REC # 22,	INCLIN = 41	T(V)	T(H)	HOT LD.	ANT.	DEPTH 30, 29.5, 30 IN. 40-42 DEGREES (FREE HANG)
MON = 3	5 GHZ	265.5	238.3	307.5	301.1	
DAY = 28	10 GHZ	264.7	261.7	312.1	296.4	
HR = 12	18 GHZ	253.6	255.0	311.6	301.1	
MIN = 27	37 GHZ	261.9	255.8	313.1	298.8	
REC # 23,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	DEPTH 28, 29, 29 10 FT HIGH
MON = 3	5 GHZ	269.8	194.4	307.5	301.1	
DAY = 28	10 GHZ	260.4	247.3	312.1	296.4	
HR = 12	18 GHZ	253.4	248.4	311.6	301.1	
MIN = 31	37 GHZ	258.2	210.9	313.1	298.8	
REC # 24,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	DEPTH 29, 29, 28.5 10 FT. HIGH
MON = 3	5 GHZ	267.4	181.4	307.5	301.1	
DAY = 28	10 GHZ	256.4	233.3	312.1	296.4	
HR = 12	18 GHZ	250.2	247.3	311.6	301.1	
MIN = 37	37 GHZ	256.1	205.5	313.1	298.8	
REC # 25,	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	28 IN. DEEP TEMP=6C
MON = 3	5 GHZ	245.7	174.4	307.5	301.1	
DAY = 28	10 GHZ	232.1	207.1	312.1	296.4	
HR = 12	18 GHZ	228.9	224.5	311.6	301.1	
MIN = 39	37 GHZ	245.2	199.2	313.1	298.8	
REC # 26,	INCLIN = 85	T(V)	T(H)	HOT LD.	ANT.	27 IN. DEEP 10 FT. HIGH
MON = 3	5 GHZ	240.1	186.1	307.5	301.1	
DAY = 28	10 GHZ	246.6	233.2	312.1	296.4	
HR = 12	18 GHZ	237.8	238.2	311.6	301.1	
MIN = 41	37 GHZ	251.5	235.8	313.1	298.8	
REC # 27,	INCLIN = 82	T(V)	T(H)	HOT LD.	ANT.	12 FT. SLANT ALUMINUM PLATE 8 X 16
MON = 3	5 GHZ	342.6	340.9	307.5	301.1	
DAY = 28	10 GHZ	314.4	338.2	312.1	296.4	
HR = 12	18 GHZ	75.3	67.6	311.6	301.1	
MIN = 56	37 GHZ	87.9	88.2	313.1	298.8	
REC # 28,	INCLIN = 66	T(V)	T(H)	HOT LD.	ANT.	STEAMBOAT SPRINGS ALUMINUM PLATE 8 X 16 NO DATA FOR 5 AND 10 GHZ IN RECORDS 28 THROUGH 47
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	
HR = 13	18 GHZ	63.0	54.8	311.6	301.1	
MIN = 0	37 GHZ	50.9	59.9	313.1	298.8	
REC # 29,	INCLIN = 56	T(V)	T(H)	HOT LD.	ANT.	15 FT. SLANT 8 X 16 AL PLATE
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	
HR = 13	18 GHZ	55.0	50.0	311.6	301.1	
MIN = 3	37 GHZ	31.4	46.7	313.1	298.8	

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REC #	MON	DAY	HR	MIN	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
30	3	28	13	7	58	0.0	0.0	307.5	301.1	STEAMBOAT
					0 GHZ	0.0	0.0	312.1	296.4	8 X 16 AL PLATE
					18 GHZ	54.4	50.0	311.6	301.1	
					37 GHZ	35.1	51.0	313.1	298.8	
31	3	28	13	10	42	0.0	0.0	307.5	301.1	42 DEG. (FREE HANG)
					0 GHZ	0.0	0.0	312.1	296.4	8 X 16 PLATE
					18 GHZ	43.6	43.8	311.6	301.1	
					37 GHZ	31.8	47.7	313.1	298.8	
32	3	28	13	17	22	0.0	0.0	307.5	301.1	8 X 16 PLATE
					0 GHZ	0.0	0.0	312.1	296.4	TEMP=6C
					18 GHZ	46.3	45.1	311.6	301.1	
					37 GHZ	28.4	46.1	313.1	298.8	
33	3	28	13	21	40	0.0	0.0	307.5	301.1	8 X 16 PLATE
					0 GHZ	0.0	0.0	312.1	296.4	TIME WAS APPROXIMATED
					18 GHZ	47.8	45.9	311.6	301.1	
					37 GHZ	30.0	43.3	313.1	298.8	
34	3	28	13	25	30	0.0	0.0	307.5	301.1	8 X 16 PLATE
					0 GHZ	0.0	0.0	312.1	296.4	TIME WAS APPROXIMATED
					18 GHZ	43.2	42.8	311.6	301.1	TEMP=6.5C
					37 GHZ	28.9	46.0	313.1	298.8	
35	3	28	13	30	20	0.0	0.0	307.5	301.1	8 X 16 PLATE
					0 GHZ	0.0	0.0	312.1	296.4	12 FT.
					18 GHZ	37.4	39.0	311.6	301.1	
					37 GHZ	21.4	39.5	313.1	298.8	
36	3	28	13	36	10	0.0	0.0	307.5	301.1	STEAMBOAT
					0 GHZ	0.0	0.0	312.1	296.4	8 X 16 PLATE
					18 GHZ	41.1	43.3	311.6	301.1	
					37 GHZ	11.8	30.3	313.1	298.8	
37	3	28	13	42	0	0.0	0.0	307.5	301.1	STEAMBOAT
					0 GHZ	0.0	0.0	312.1	296.4	8 X 16 PLATE
					18 GHZ	122.3	129.6	311.6	301.1	TIME LISTED AS 1442 CHANGED TO 1342
					37 GHZ	56.8	78.4	313.1	298.8	
38	3	28	13	44	21	0.0	0.0	307.5	301.1	STEAMBOAT
					0 GHZ	0.0	0.0	312.1	296.4	12 FT.
					18 GHZ	77.3	82.2	311.6	301.1	
					37 GHZ	27.3	48.7	313.1	298.8	
39	3	28	13	46	0	0.0	0.0	307.5	301.1	8 X 16 PLATE
					0 GHZ	0.0	0.0	312.1	296.4	4 FT. TEMP=1C
					18 GHZ	98.7	108.8	311.6	301.1	
					37 GHZ	67.8	-20.6	313.1	298.8	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 40,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	STEAMBOAT
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	8 FT.
HR = 13	18 GHZ	107.7	115.6	311.6	301.1	
MIN = 50	37 GHZ	58.0	77.3	313.1	298.8	
REC # 41,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	8 X 16 PLATE
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	6 FT.
HR = 13	18 GHZ	123.8	130.3	311.6	301.1	
MIN = 52	37 GHZ	73.1	96.6	313.1	298.8	
REC # 42,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	8 X 16 PLATE
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	10 FT.
HR = 13	18 GHZ	99.4	102.7	311.6	301.1	
MIN = 54	37 GHZ	40.3	61.3	313.1	298.8	
REC # 43,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	STEAMBOAT
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	12 FT.
HR = 13	18 GHZ	98.7	103.8	311.6	301.1	
MIN = 56	37 GHZ	16.6	37.9	313.1	298.8	
REC # 44,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	STILL NO 5 AND 10 GHZ DATA
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	14 FT.
HR = 13	18 GHZ	94.2	97.0	311.6	301.1	
MIN = 57	37 GHZ	3.7	27.7	313.1	298.8	
REC # 45,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	STEAMBOAT
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	16 FT.
HR = 13	18 GHZ	81.5	79.0	311.6	301.1	
MIN = 58	37 GHZ	-13.5	11.8	313.1	298.8	
REC # 46,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	STEAMBOAT
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	20 FT.
HR = 13	18 GHZ	66.7	68.3	311.6	301.1	STILL NADIR
MIN = 59	37 GHZ	-22.8	0.7	313.1	298.8	
REC # 47,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	0 GHZ	0.0	0.0	307.5	301.1	SAKE
DAY = 28	0 GHZ	0.0	0.0	312.1	296.4	22 FT.
HR = 14	18 GHZ	57.1	57.0	311.6	301.1	
MIN = 0	37 GHZ	-7.4	15.7	313.1	298.8	
REC # 48,	INCLIN = 90	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	281.4	283.5	307.5	301.1	ECCOSORB
DAY = 28	10 GHZ	279.5	280.0	312.1	296.4	NO TEMP RECORDED
HR = 14	18 GHZ	269.5	273.7	311.6	301.1	
MIN = 12	37 GHZ	279.1	281.7	313.1	298.8	
REC # 49,	INCLIN = 90	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	288.8	289.1	307.5	301.1	ECCOSORB
DAY = 28	10 GHZ	287.1	286.8	312.1	296.4	5 GHZ TEMP = 10 DEG.
HR = 14	18 GHZ	279.8	284.3	311.6	301.1	13 DEG. FOR REST
MIN = 37	37 GHZ	288.0	290.5	313.1	298.8	

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REC # 50,	INCLIN = 90	T(V)	T(H)	HOT LD.	ANT.	
NOB = 3	5 GHZ	284.7	282.7	307.5	301.1	15 DEG. C FOR X, 18 AND 37
DAY = 28	10 GHZ	286.7	286.3	312.1	296.4	15.5 DEG. C FOR C BAND
HR = 14	18 GHZ	279.8	284.3	311.6	301.1	ECCOSORB
HYB = 45	37 GHZ	285.1	287.4	313.1	298.8	
REC # 51,	INCLIN = 90	T(V)	T(H)	HOT LD.	ANT.	
NOB = 3	5 GHZ	284.4	281.6	307.5	301.1	ECCOSORB
DAY = 28	10 GHZ	285.2	285.9	312.1	296.4	16C
HR = 14	18 GHZ	272.4	276.1	311.6	301.1	
HYB = 55	37 GHZ	279.7	279.6	313.1	298.8	
REC # 52,	INCLIN = 90	T(V)	T(H)	HOT LD.	ANT.	
NOB = 3	5 GHZ	283.6	279.9	307.5	301.1	TIME WAS APPROXIMATED
DAY = 28	10 GHZ	285.7	285.3	312.1	296.4	ECCOSORB
HR = 15	18 GHZ	273.1	276.6	311.6	301.1	17C
HYB = 0	37 GHZ	279.7	278.9	313.1	298.8	LAST RECORD

END OF RUN.

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 1, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	269.1	243.8	284.4	267.1	STEAMBOAT SPRINGS AREA 1 ROAD 1
DAY = 29	10 GHZ	250.8	218.2	295.3	265.9	AREA 1 IN FIELD ABOUT 50 YDS FROM
HR = 7	18 GHZ	247.3	220.6	278.5	265.5	1/4 MILE MARK POS 2
HIW = 30	37 GHZ	131.6	111.9	284.0	266.6	POS 2 33, 33, 33
REC # 2, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	268.7	249.1	286.0	267.5	STEAMBOAT ROAD 1
DAY = 29	10 GHZ	245.5	207.4	297.3	266.5	POS 1 34, 33, 33.5
HR = 7	18 GHZ	256.2	229.5	279.6	266.2	TEMP=-6C
HIW = 34	37 GHZ	134.3	115.5	285.6	267.0	
REC # 3, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	269.0	252.2	288.2	268.1	ROAD 1
DAY = 29	10 GHZ	245.1	209.0	300.0	267.4	POS 3 29.5, 30, 30
HR = 7	18 GHZ	251.2	216.9	281.2	267.3	NO ANGLE LISTED, ASSUME 50
HIW = 40	37 GHZ	134.0	116.8	287.9	267.7	
REC # 4, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	268.5	255.7	289.5	268.5	AREA 1 ROAD 1
DAY = 29	10 GHZ	242.8	215.7	301.7	268.0	BOOM FULLY EXTENDED FROM POS 1
HR = 7	18 GHZ	256.3	231.4	282.2	268.1	DEPTH 27, 35, 27, 32 IN.
HIW = 44	37 GHZ	138.4	121.9	289.3	268.1	LEFT TO RIGHT
REC # 5, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	268.3	254.2	291.1	269.0	ROAD 1 POS 2
DAY = 29	10 GHZ	244.4	218.5	303.7	268.7	26.5, 27.5, 26, 26.5
HR = 7	18 GHZ	246.2	217.4	283.3	268.9	TEMP=-5.5C, BOOM EXTENDED
HIW = 49	37 GHZ	138.3	123.5	291.0	268.6	NO ANGLE LISTED, ASSUME 50
REC # 6, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	268.6	256.5	292.0	269.3	ROAD 1 POS 3
DAY = 29	10 GHZ	248.8	233.6	304.8	269.1	BOOM EXTENDED
HR = 7	18 GHZ	241.9	212.3	283.9	269.5	DEPTH 26.5, 26.5, 27
HIW = 52	37 GHZ	133.5	121.3	291.9	268.9	
REC # 7, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	299.5	294.8	296.6	271.1	ROAD 1 AREA 1 POS 1
DAY = 29	10 GHZ	243.6	223.0	310.1	271.6	APPROX DEPTH 33.5, 31.5, 30.5
HR = 8	18 GHZ	235.3	211.5	287.2	272.4	
HIW = 10	37 GHZ	123.2	116.1	296.5	270.8	
REC # 8, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	266.5	261.4	298.4	272.1	POS 2 26.5, 27, 27
DAY = 29	10 GHZ	250.2	235.6	312.0	273.0	TEMP=-2C ANGLE APPROX. 30
HR = 8	18 GHZ	241.3	239.1	288.6	273.9	
HIW = 20	37 GHZ	133.4	123.6	298.4	271.8	
REC # 9, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	262.9	257.3	298.7	272.2	POS 3 ANGLE APPROX. 30
DAY = 29	10 GHZ	251.8	239.1	312.4	273.5	DEPTH 27, 27, 28
HR = 8	18 GHZ	245.0	227.3	288.9	274.2	
HIW = 22	37 GHZ	134.5	128.3	298.7	272.1	
REC # 10, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	265.6	262.2	299.4	272.7	POS 1 EXTENDED BOOM
DAY = 29	10 GHZ	252.5	244.8	313.0	273.9	DEPTH 26, 26, 25.5 IN.
HR = 8	18 GHZ	252.2	235.0	289.4	275.0	
HIW = 27	37 GHZ	129.3	123.4	299.4	272.6	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	POS	DEPTH	EXTENDED BOOM
REC # 11, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	POS 2	26, 26, 26	EXTENDED BOOM
HOW = 29	5 GHZ	265.8	257.5	299.8	273.1			
DAY = 29	10 GHZ	255.5	243.7	313.4	274.4			
HR = 8	18 GHZ	238.9	223.0	289.8	275.5			
HIW = 31	37 GHZ	131.7	124.6	299.9	273.0			
REC # 12, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	EXTENDED BOOM	27, 27, 27	
HOW = 29	5 GHZ	266.4	257.8	300.3	273.6			
DAY = 29	10 GHZ	251.6	240.1	313.8	275.0			
HR = 8	18 GHZ	247.3	231.9	290.2	276.2			
HIW = 36	37 GHZ	133.6	127.5	300.4	273.5			
REC # 13, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	AREA 1 ROAD 1 POS 1	26, 26, 25.5	
HOW = 29	5 GHZ	264.2	263.0	300.8	274.5			
DAY = 29	10 GHZ	249.5	249.7	314.0	276.1			
HR = 8	18 GHZ	253.9	253.8	290.7	277.4			
HIW = 45	37 GHZ	132.1	133.7	301.0	274.5			
REC # 14, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	POS 2	28.5, 28, 27.5	
HOW = 29	5 GHZ	263.3	262.6	300.9	274.7			
DAY = 29	10 GHZ	257.0	256.8	313.9	276.3			
HR = 8	18 GHZ	272.0	270.7	290.7	277.7			
HIW = 47	37 GHZ	136.1	139.7	301.0	274.7			
REC # 15, 3	INCLIN = 59	T(V)	T(H)	HOT LD.	ANT.	STEAMBOAT SITE 2 ROAD 1 POS 1	30.0, 29.5, 28.5	
HOW = 29	5 GHZ	276.6	259.3	297.6	278.8			
DAY = 29	10 GHZ	258.8	247.9	306.6	281.1			
HR = 9	18 GHZ	278.6	262.8	289.3	282.4			
HIW = 30	37 GHZ	241.2	203.4	297.8	279.3			
REC # 16, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	ROAD 1 POS 2	26.5, 26, 26	
HOW = 29	5 GHZ	270.5	254.2	297.7	279.3			
DAY = 29	10 GHZ	258.0	251.9	306.5	281.6			
HR = 9	18 GHZ	273.2	265.9	282.5	282.8			
HIW = 35	37 GHZ	247.3	208.9	297.9	279.8			
REC # 17, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	POS 1	27.5, 27, 27.5	
HOW = 29	5 GHZ	269.4	254.6	297.8	279.8			
DAY = 29	10 GHZ	256.7	249.6	306.4	282.1			
HR = 9	18 GHZ	266.6	288.2	289.7	283.2			
HIW = 40	37 GHZ	245.2	210.2	298.1	280.3			
REC # 18, 3	INCLIN = 55	T(V)	T(H)	HOT LD.	ANT.	POS 2		
HOW = 29	5 GHZ	269.1	245.1	297.9	280.8			
DAY = 29	10 GHZ	258.6	256.2	306.2	283.1			
HR = 9	18 GHZ	274.8	265.4	290.1	283.8			
HIW = 50	37 GHZ	248.6	191.1	298.3	281.3			
REC # 19, 3	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.			
HOW = 29	5 GHZ	260.8	221.9	298.0	281.0			
DAY = 29	10 GHZ	254.0	246.5	306.1	283.3			
HR = 9	18 GHZ	284.6	262.9	290.2	283.9			
HIW = 52	37 GHZ	239.8	170.3	298.4	281.5			
REC # 20, 3	INCLIN = 65	T(V)	T(H)	HOT LD.	ANT.			
HOW = 29	5 GHZ	262.5	225.3	298.1	281.4			
DAY = 29	10 GHZ	255.8	247.9	306.1	283.7			
HR = 9	18 GHZ	296.8	273.0	290.4	284.1			
HIW = 56	37 GHZ	241.8	175.6	298.5	281.9			

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REC # 21, 3	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	251.1	205.6	298.1	281.8	
DAY = 10	10 GHZ	248.3	237.5	306.0	284.1	
HR = 10	18 GHZ	295.3	267.8	290.6	284.3	
MIN = 0	37 GHZ	230.4	156.1	298.6	282.3	
REC # 22, 3	INCLIN = 75	T(V)	T(H)	HOT LD.	ANT.	TEMP=5C
NOV = 29	5 GHZ	236.3	188.6	298.3	282.2	
DAY = 10	10 GHZ	237.0	222.3	306.0	284.5	
HR = 10	18 GHZ	281.6	248.8	290.8	284.5	
MIN = 5	37 GHZ	220.5	145.2	298.8	282.8	
REC # 23, 3	INCLIN = 80	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	207.4	162.0	298.3	282.4	
DAY = 10	10 GHZ	201.6	182.9	306.0	284.7	
HR = 10	18 GHZ	262.4	230.3	290.9	284.6	
MIN = 7	37 GHZ	198.5	130.6	298.9	283.0	
REC # 24, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	SITE 2 POS 1
NOV = 29	5 GHZ	266.6	254.3	298.5	283.2	
DAY = 10	10 GHZ	260.1	257.3	306.0	285.5	DEPTH 27.5, 27, 27
HR = 10	18 GHZ	304.9	292.0	291.4	284.8	
MIN = 15	37 GHZ	240.9	221.9	299.2	283.8	
REC # 25, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	POS 2
NOV = 29	5 GHZ	267.6	256.2	298.6	283.4	
DAY = 10	10 GHZ	259.7	258.2	306.0	285.7	DEPTH 25.5, 26, 25.5
HR = 10	18 GHZ	291.5	283.6	291.5	284.9	
MIN = 17	37 GHZ	241.1	219.7	299.3	284.0	
REC # 26, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	POS 1 EXTENDED
NOV = 29	5 GHZ	265.2	256.7	298.8	284.2	
DAY = 10	10 GHZ	259.8	258.3	306.1	286.4	DEPTH 28, 26.5, 27
HR = 10	18 GHZ	291.9	284.8	292.0	285.1	
MIN = 25	37 GHZ	239.8	221.8	299.6	284.8	
REC # 27, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	NORTON JACOBS FIELD SITE 2
NOV = 29	5 GHZ	265.1	262.5	299.0	284.9	
DAY = 10	10 GHZ	259.4	259.7	306.2	287.0	ROAD 1 POS 1
HR = 10	18 GHZ	299.5	296.7	292.4	285.2	DEPTH 30, 32.5, 29.5 IN.
MIN = 32	37 GHZ	244.7	240.5	299.9	285.5	
REC # 28, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	ROAD 1 POS 2
NOV = 29	5 GHZ	266.0	264.9	299.1	285.1	
DAY = 10	10 GHZ	261.9	262.7	306.2	287.2	DEPTH 28, 26.5, 27 IN.
HR = 10	18 GHZ	292.8	294.3	292.5	285.2	TEMP=1C
MIN = 34	37 GHZ	242.9	234.3	300.0	285.7	
REC # 29, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	ROAD 1 SITE 2 POS 2
NOV = 29	5 GHZ	253.9	250.1	302.3	290.8	
DAY = 10	10 GHZ	260.1	261.3	310.4	290.8	SNOW REMOVED AND FILE 28 REMADE
HR = 10	18 GHZ	280.3	284.9	298.2	280.9	
MIN = 52	37 GHZ	245.8	240.0	304.5	291.0	
REC # 30, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	SITE 1 ROAD 2
NOV = 29	5 GHZ	272.3	264.8	303.8	294.8	
DAY = 10	10 GHZ	263.1	255.8	311.6	293.9	
HR = 12	18 GHZ	279.7	280.5	301.1	280.4	
MIN = 12	37 GHZ	256.2	238.4	306.6	294.8	

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 31, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	268.5	251.6	303.8	294.8	SITE 1 ROAD 2
DAY = 29	10 GHZ	264.6	262.6	311.6	293.9	DEPTHS 26.5, 27.5, 27
HR = 12	18 GHZ	276.4	277.5	301.1	280.4	
HTW = 25	37 GHZ	251.7	243.9	306.6	294.8	
REC # 32, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	267.4	264.8	303.8	294.8	SITE 1 ROAD 2
DAY = 29	10 GHZ	266.0	266.4	311.6	293.9	DEPTH 26, 25.5, 26
HR = 12	18 GHZ	276.8	281.5	301.1	280.4	
HTW = 28	37 GHZ	252.8	251.6	306.6	294.8	
REC # 33, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	251.5	250.0	303.8	294.8	SITE 1 ROAD 2
DAY = 29	10 GHZ	251.4	252.5	311.6	293.9	SNOW REMOVED SITE 1
HR = 12	18 GHZ	255.5	260.8	301.1	280.4	10 FT. HIGH SNOW SURFACE
HTW = 40	37 GHZ	260.1	260.1	306.6	294.8	
REC # 34, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	255.0	251.3	303.8	294.8	SITE 1 SNOW REMOVED
DAY = 29	10 GHZ	259.9	260.2	311.6	293.9	4 FT. HIGH SNOW SURFACE
HR = 12	18 GHZ	254.3	260.5	301.1	280.4	
HTW = 44	37 GHZ	260.5	257.5	306.6	294.8	
REC # 35, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	262.1	257.9	303.8	294.8	SITE 1 2 FT. FROM SNOW SURFACE
DAY = 29	10 GHZ	265.1	265.0	311.6	293.9	NO TIME GIVEN - APPROXIMATED
HR = 12	18 GHZ	259.9	264.8	301.1	280.4	
HTW = 48	37 GHZ	263.4	260.7	306.6	294.8	
REC # 36, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	265.8	248.2	303.8	294.8	ROAD 2 SITE TO LEFT OF
DAY = 29	10 GHZ	265.2	261.8	311.6	293.9	15 FT. VERTICAL 26.5 IN DEEP
HR = 12	18 GHZ	259.7	264.6	301.1	280.4	23, 24, 24
HTW = 53	37 GHZ	253.9	251.1	306.6	294.8	
REC # 37, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	266.0	229.6	303.8	294.8	STEAMBOAT ROAD 2 SITE 2
DAY = 29	10 GHZ	263.2	257.4	311.6	293.9	DEPTH 27.5, 27.5, 26
HR = 13	18 GHZ	258.2	260.8	301.1	280.4	
HTW = 2	37 GHZ	252.9	243.5	306.6	294.8	
REC # 38, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	269.2	237.1	303.8	294.8	ROAD 2 SITE 3
DAY = 29	10 GHZ	264.3	258.4	311.6	293.9	ABOUT 50 YDS SOUTH OF SITES 1 AND 2
HR = 13	18 GHZ	258.1	258.9	301.1	280.4	
HTW = 17	37 GHZ	254.4	242.5	306.6	294.8	
REC # 39, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	266.4	248.6	303.8	294.8	ROAD 2 SITE 3 20 FT.
DAY = 29	10 GHZ	263.7	259.7	311.6	293.9	DEPTHS 25, 24, 23
HR = 13	18 GHZ	260.7	263.4	301.1	280.4	
HTW = 24	37 GHZ	255.7	253.2	306.6	294.8	
REC # 40, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
NOV = 29	5 GHZ	266.2	248.4	303.8	294.8	ROAD 2 SITE 3 8 FT.
DAY = 29	10 GHZ	265.2	261.8	311.6	293.9	DEPTHS 26, 25, 25
HR = 13	18 GHZ	260.0	265.8	301.1	280.4	
HTW = 30	37 GHZ	256.7	254.6	306.6	294.8	

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REC # 41,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	263.8	261.2	303.8	294.8	
DAY = 29	10 GHZ	266.5	265.9	311.6	293.9	ROAD 2 SITE 3
HR = 13	18 GHZ	259.8	263.9	301.1	280.4	PARTIAL BOOM EXTENSION
HIW = 30	37 GHZ	259.3	261.9	306.6	294.8	
REC # 42,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	266.2	263.9	303.8	294.8	
DAY = 29	10 GHZ	266.9	267.7	311.6	293.9	ROAD 2 SITE 3
HR = 13	18 GHZ	263.5	267.1	301.1	280.4	PULL BOOM EXTENSION
HIW = 34	37 GHZ	254.3	255.8	306.6	294.8	DEPTHS 26, 24, 24
REC # 43,	INCLIN = 135	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	10.1	5.8	303.8	294.8	
DAY = 29	10 GHZ	0.2	0.0	311.6	293.9	SKY CAL
HR = 13	18 GHZ	9.7	10.2	301.1	280.4	ROAD 2 SITE 3
HIW = 45	37 GHZ	19.8	31.1	306.6	294.8	
REC # 44,	INCLIN = 165	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	8.6	5.2	303.8	294.8	
DAY = 29	10 GHZ	1.1	1.4	311.6	293.9	SUN
HR = 13	18 GHZ	16.8	15.4	301.1	280.4	
HIW = 48	37 GHZ	24.7	36.6	306.6	294.8	
REC # 45,	INCLIN = 89	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	140.7	70.9	303.8	294.8	
DAY = 29	10 GHZ	143.8	93.9	311.6	293.9	1 DEGREE FROM HORIZONTAL
HR = 14	18 GHZ	173.2	162.2	301.1	280.4	SNOW COVERED MTN
HIW = 55	37 GHZ	208.9	152.6	306.6	294.8	4 FT. HIGH
						RECORDS 46-52 MARKED WITH X S.
REC # 46,	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	276.7	275.7	303.8	294.8	
DAY = 29	10 GHZ	277.6	277.1	311.6	293.9	X
HR = 14	18 GHZ	275.8	281.0	301.1	280.4	STEAMBOAT
HIW = 2	37 GHZ	276.5	277.1	306.6	294.8	8-10
						TIME REGRESSES FROM REC. 45
REC # 47,	INCLIN = 10	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	275.2	271.3	303.8	294.8	
DAY = 29	10 GHZ	273.0	272.0	311.6	293.9	X
HR = 14	18 GHZ	271.9	275.7	301.1	280.4	8-10
HIW = 5	37 GHZ	275.2	276.3	306.6	294.8	
REC # 47,	INCLIN = 20	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	276.4	269.1	303.8	294.8	
DAY = 29	10 GHZ	275.5	269.3	311.6	293.9	X
HR = 14	18 GHZ	271.8	275.0	301.1	280.4	10-12 FT
HIW = 7	37 GHZ	275.1	275.0	306.6	294.8	
REC # 48,	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	278.2	262.8	303.8	294.8	
DAY = 29	10 GHZ	271.0	256.6	311.6	293.9	X
HR = 14	18 GHZ	272.9	270.1	301.1	280.4	10-12 FT
HIW = 10	37 GHZ	276.1	273.0	306.6	294.8	
REC # 49,	INCLIN = 40	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	278.2	254.5	303.8	294.8	
DAY = 29	10 GHZ	271.9	248.5	311.6	293.9	X
HR = 14	18 GHZ	272.7	264.9	301.1	280.4	
HIW = 12	37 GHZ	275.8	270.5	306.6	294.8	

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REC # 50,	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
HON = 3	5 GHZ	279.5	247.5	303.8	294.8	X
DAY = 29	10 GHZ	274.2	245.1	311.6	293.9	
HR = 14	18 GHZ	274.2	257.5	301.1	280.4	
MIN = 12	37 GHZ	275.5	264.2	306.6	294.8	
REC # 51,	INCLIN = 60	T(V)	T(H)	HOT LD.	ANT.	
HON = 3	5 GHZ	277.4	222.0	303.8	294.8	X
DAY = 29	10 GHZ	273.4	217.8	311.6	293.9	
HR = 14	18 GHZ	267.0	236.1	301.1	280.4	
MIN = 14	37 GHZ	272.6	251.8	306.6	294.8	
REC # 52,	INCLIN = 70	T(V)	T(H)	HOT LD.	ANT.	
HON = 3	5 GHZ	253.5	177.5	303.8	294.8	X
DAY = 29	10 GHZ	252.2	225.2	311.6	293.9	
HR = 14	18 GHZ	248.9	207.5	301.1	280.4	
MIN = 20	37 GHZ	257.3	228.5	306.6	294.8	

END OF RUN.

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REC #	INCLIN	T(V)	T(H)	HOT LD.	ANT.	
REC # 1, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	266.6	260.4	298.8	273.9	STEAMBOAT ROAD 2, POS 4. TEMP=-1C
DAY = 30	10 GHZ	250.0	238.6	310.1	275.4	TO NIGHT OF YESTERDAYS PIT 50 FT.
HR = 8	18 GHZ	255.9	248.0	288.5	275.1	BOOM FULLY EXTENDED, V HEIGHT 15-20
HIW = 25	37 GHZ	144.7	141.8	298.3	273.5	FT. DEPTH 24.5, 24, 25.5 IN.
REC # 2, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	270.3	257.2	299.4	274.8	STEAMBOAT ROAD 2 POS 4
DAY = 30	10 GHZ	257.0	248.0	309.7	276.5	BOOM FULLY EXTENDED ETC.
HR = 8	18 GHZ	258.4	247.6	288.8	276.2	DEPTH 31, 25, 27.5 IN.
HIW = 30	37 GHZ	166.0	156.0	298.8	274.5	
REC # 3, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	265.2	262.7	299.9	275.6	ROAD 2 POS 4
DAY = 30	10 GHZ	251.2	251.0	309.3	277.5	15 FT. HIGH
HR = 8	18 GHZ	256.8	261.0	289.1	277.1	DEPTH 24, 24, 26 IN
HIW = 35	37 GHZ	200.1	197.1	299.3	275.3	TEMP=0C
REC # 4, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	247.9	247.1	300.9	277.1	ROAD 2 POS 4
DAY = 30	10 GHZ	245.3	246.9	308.6	279.4	15 FT. HIGH
HR = 8	18 GHZ	263.4	267.9	289.6	279.0	SNOW REMOVED
HIW = 50	37 GHZ	246.1	243.3	300.2	277.0	TEMP=0C
REC # 5, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	245.7	240.7	301.0	277.3	SAME
DAY = 30	10 GHZ	249.4	251.0	308.5	279.6	HT CHANGED TO 10 FT.
HR = 8	18 GHZ	263.0	267.7	289.6	279.1	
HIW = 52	37 GHZ	243.8	241.7	300.3	277.1	
REC # 6, 3	INCLIN = 50	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	278.8	266.4	301.1	277.5	ROAD 2 POS 3
DAY = 30	10 GHZ	263.2	258.4	308.4	279.9	FULLY EXTENDED 20 FT.
HR = 9	18 GHZ	278.4	278.4	289.7	279.4	DEPTHS 24, 23.5, 24 IN.
HIW = 5	37 GHZ	248.2	238.4	300.4	277.4	
REC # 7, 3	INCLIN = 30	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	269.4	260.7	301.1	277.5	ROAD 2 POS 3
DAY = 30	10 GHZ	261.0	258.6	308.4	279.9	BOOM FULLY EXTENDED
HR = 9	18 GHZ	281.0	282.9	289.7	279.4	DEPTHS 22.5, 24, 25 IN.
HIW = 9	37 GHZ	250.0	244.1	300.4	277.4	
REC # 8, 3	INCLIN = 0	T(V)	T(H)	HOT LD.	ANT.	
MON = 3	5 GHZ	266.5	265.4	301.1	277.5	ROAD 2 POS 3
DAY = 30	10 GHZ	259.5	259.4	308.4	279.9	DEPTHS 25.5, 27, 25.5
HR = 9	18 GHZ	278.5	280.8	289.7	279.4	
HIW = 12	37 GHZ	247.5	243.5	300.4	277.4	

END OF RUN.

BIBLIOGRAPHIC DATA SHEET

1. Report No. NASA TP-1408	2. Government Accession No.	3. Recipient's Catalog No.	
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16. Abstract The purpose of this experiment was to determine if remote microwave sensing of snowpack data could be used to predict runoff, thereby allowing more efficient management of the water supply. A four-frequency microwave radiometer system was attached to a truck-mounted aerial lift and was used to gather data on snowpacks at three different sites in the Colorado Rocky Mountains. Ground truth data measurements (density, temperature, grain size, hardness, and free-liquid water content) were taken at each site corresponding to each microwave scan. Although the detailed analysis of these data is not yet complete, understanding of microwave sensing has been enhanced considerably.			
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